

STRUCTURE NUMBER: 110173

ATTENTION: prompt action request; sketches updated; new beam

FHWA STRUCTURE NO: 000000000230173

repairs

Structure Safety Report

Routine Element Inspection - Contract

SAP STRUCTURE NO: 0120173

DIVISION: 13	COUNTY: BURKE	INSPE	CTION DATE:	10/25/2023	FREQ	UENCY: 24 MONT	HS
FACILITY CARRIED:	SR1002				MILE POST:		
LOCATION: .2 MI.N.	JCT.SR1780						
FEATURE INTERSEC	TED: 1-40						
LATITUDE: 35° 42′	19.14"	LONGITUDE:	81° 25' 24.7	'4 "			
SUPERSTRUCTURE:	REINFORCED CO	ONCRETE FLOOR ON I-E	BEAMS (WIDI	ENED)			
SUBSTRUCTURE: E	.BTS:RC CAPS/TIM	.PILES&H-PILESINT.BTS	S:RC POST&I	BEAM			
SPANS: 4 SPANS	. SEE SPAN PROFI	LE SHEET FOR SPAN D	ETAILS				
FRACTURE CRI	TICAL TEMPO	ORARY SHORING	SCOUR CRI	TICAL		PLAN OF ACTION	
GRADES: (Inspector/	NBI Coding) DECK 5	SUPERSTRUCTU	RE <u>4/4</u>	SUBSTRUC	TURE 4/4	CULVERT N/N	N
POSTED SV: Not P	Posted		POSTED T	rst: Not Post	ted		
					Sign noticed issued for		Number Required
				-9-			Required
					<u>NO</u>	WEIGHT LIMIT	0
				_ 4	<u>NO</u>	DELINEATORS	0
	CANAL SERVICE					NARROW BRIDGE	0
						ONE LANE BRIDGE	0
		3			NO	LOW CLEARANCE	0
						TION OF ECTION S-N	
	_					CTION ES PLANS	
south approach loo	king north		Washington Control of the Control of				
INSPECTED BY Juan Rodriguez		SIGNATURE	4		ASSISTED BY	Hector Bonilla	

(1) STATE NAME NORTH CAROLINA BRIDGE 1	10173	SUFFICIENCY RATING		61.8
	230173	STATUS =	Structurally	Deficien
,	10020	CLASSIFICATION		CODE
(2) STATE HIGHWAY DEPARTMENT DISTRICT	13	(112) NBIS BRIDGE SYSTEM		YE
(3) COUNTY CODE (FEDERAL) 23 (4) PLACE CODE	31500	(104) HIGHWAY SYSTEM Inventory Route	not on NHS	
(6) FEATURE INTERSECTED I-40 (7) FACILITY CARRIED SR1002		(26) FUNCTIONAL CLASS Urba	n Collector	1
(9) LOCATION .2 MI.N.JCT.SR1780		(100) STRAHNET HIGHWAY Not a STRAH	INET Route	
(11) MILEPOINT	0.0	(101) PARALLEL STRUCTURE No parallel struc	cture exists	1
(12) BASE HIGHWAY NETWORK	0	•	-way traffic	
(13) LRS INVENTORY ROUTE & SUBROUTE		(103) TEMPORARY STRUCTURE	way traine	
(16) LATITUDE 35° 42' 19.14" (17) LONGITUDE 81° 25'	24.74"		k for trucks	
(98) BORDER BRIDGE STATE CODE PERCENT SHARED (99) BORDER BRIDGE STRUCTURE NUMBER		(110) DESIGNATED NATIONAL NETWORK - on national network		
(33) BONDEN BRIDGE OTHOUTONE HOMBER			Free Road	_
STRUCTURE TYPE AND MATERIAL —		(21) MAINT -		0
(43) STRUCTURE TYPE MAIN	Steel	(22) OWNER -		0
TYPE Stringer/Multi-beam or girder CODE	302	(37) HISTORICAL SIGNIFICANCE -		
(44) STRUCTURE TYPE APPROACH		CONDITION		CODE
TYPE CODE		(58) DECK		
(45) NUMBER OF SPANS IN MAIN UNIT	4	(59) SUPERSTRUCTURE		
(46) NUMBER OF SPANS IN APPROACH	0	(60) SUBSTRUCTURE		
(107) DECK STRUCTURE TYPE CODE	1	(61) CHANNEL & CHANNEL PROTECTION		ı
(108)WEARING SURFACE/PROTECTIVE SYSTEM		(62) CULVERTS		ı
(A) TYPE OF WEARING SURFACE CODE	6	LOAD RATING AND POSTING		CODE
(B) TYPE OF MEMBRANE CODE	0	(31) DESIGN LOAD	HS 15	
(C) TYPE OF DECK PROTECTION CODE	0	(63) OPERATING RATING METHOD -	oad Factor	
AGE AND SERVICE		(64) OPERATING RATING -	HS-27	4
(27) YEAR BUILT	1956	(65) INVENTORY RATING METHOD -		
(106) YEAR RECONSTRUCTED	1975	(66) INVENTORY RATING	HS-16	2
(42) TYPE OF SERVICE ON - Overpass Str	ucture		g Required	
OFF - Highway CODE	61	(41) STRUCTURE OPEN, POSTED, OR CLOSED	3 - 1	
(28) LANES ON STRUCTURE 4 LANES UNDER STRUCTURE	4		restriction	•
(29) AVERAGE DAILY TRAFFIC	4100	•		CODE
(30) YEAR OF ADT 2021 (109) TRUCK ADT PCT	7	— APPRAISAL — (67) STRUCTURAL EVALUATION		CODE
(19) BYPASS OR DETOUR LENGTH	0.0	(68) DECK GEOMETRY		
GEOMETRIC DATA	0.0	(69) UNDERCLEARANCES, VERT & HORIZ		
(48) LENGTH OF MAXIMUM SPAN	57.0			
(49) STRUCTURE LENGTH	207.0	(71) WATERWAY ADEQUACY		I
(50) CURB OR SIDEWALK: LEFT 0.0 RIGHT	0.0	(72) APPROACH ROADWAY ALIGNMENT		
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB	67.4	(36) TRAFFIC SAFETY FEATURES		011
(52) DECK WIDTH OUT TO OUT	70.0	(113) SCOUR CRITICAL BRIDGES		
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE	58.0 0	PROPOSED IMPROVEMENTS -		
(34) SKEW 27 (35) STRUCTURE FLARED	0	(75) TYPE OF WORK	CODE	=
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9	(76) LENGTH OF STRUCTURE IMPROVEMENT		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	67.4	(94) BRIDGE IMPROVEMENT COST		
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9	(95) ROADWAY IMPROVEMENT COST		
(54) MIN VERT UNDERCLEAR: REFERENCE H	14.8	(96) TOTAL PROJECT COST		
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE H (56) MIN LAT UNDERCLEARANCE LT:	8.7 13.3	(97) YEAR OF IMPROVEMENT COST ESTIMATE		
(30) WIN LAT UNDERGLEARANGE ET.	13.3	(114) FUTURE ADT 8,200 YEAR OF FUTURE	ADT	204
———— NAVIGATION DATA ——————		INSPECTION		
(38) NAVIGATION CONTROL - CODE	N	(90) INSPECTION DATE 10/23 (91) FF		24
(111) PIER PROTECTION CODE		(92) CRITICAL FEATURE INSPECTION	(93) CFI DAT	Έ
(39) NAVIGATION VERTICAL CLEARANCE	0.0	A) FRACTURE CRIT DETAIL A)		
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR	0.0	B) UNDERWATER INSP B)		
(40) NAVIGATION HORIZONTAL CLEARANCE	0.0	C) OTHER SPECIAL INSP		

			Vertical							raffic	ance			See N	lote Be	low			E	
Span Number	Facility Carried	Inventory Route	Maximum Minimum Verl Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily T	Total Horizontal Clearan	Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I 40 EB - LIDAR 05/30/13	1100040	16.4	119.0	1	10040	11	2	22500	2015	42.7	Н	16.1	11.6	12.3	5		1		
3	I 40 WB - LIDAR 05/30/13	1100040	15.0	119.0	1	10040	11	2	22500	2015	43.3	Н	14.8	8.7	13.3	3		1		
3	I 40 W	1100040	15.0	119.0	1	10040	11	2	25750	2019	43.3	Н	14.8	8.7	13.3	3	1	1		

Superstructure Build Details

Span Number $\underline{1}$

Span Length 49.000

Skew 63.000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	3332	Square Feet		
22	Other Bearing	Other Bearings	22 Each		Unknown	22
11	Plate Girder	Steel Open Girder/Beam	539	Feet	Inorganic Zinc Pimer with Acrylic Top Coat	5115
2	Concrete and Metal Railing	Other Bridge Railing	98	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	3430	Square Feet		

Span Number $\underline{2}$

Span Length 57.500

Skew 63.000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
22	Other Bearing	Other Bearings	22	Each	Unknown	22
1	Standard Joint	Pourable Joint Seal	77 Feet			
2	Concrete and Metal Railing	Other Bridge Railing	116	Feet		
1	Asphalt Wearing Surface	Wearing Surface	3910	Square Feet		
11	Plate Girder	Steel Open Girder/Beam	638	Feet	Inorganic Zinc Pimer with Acrylic Top Coat	6017
1	Reinforced Concrete Deck	Reinforced Concrete Deck	4025	Square Feet		

Span Number $\underline{3}$

Span Length 57.500

Skew 63.000

Number of Items	Type of Component	Element Name	Qua	antity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	3910 Sq	quare Feet		
22	Other Bearing	Other Bearings	22 Ea	ach	Unknown	22
2	Concrete and Metal Railing	Other Bridge Railing	116 Fe	eet		
11	Plate Girder	Steel Open Girder/Beam	638 Fe	eet	Inorganic Zinc Pimer with Acrylic Top Coat	6017
1	Reinforced Concrete Deck	Reinforced Concrete Deck	4025 Sq	quare Feet		
1	Standard Joint	Pourable Joint Seal	77 Fe	eet		

Span Number $\underline{4}$

 $\textbf{Span Length} \quad \underline{42.500}$

Skew 63.000

Superstructure Build Details

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
22	Other Bearing	Other Bearings	22	Each	Unknown	22
2	Concrete and Metal Railing	Other Bridge Railing	86	Feet		
1	Asphalt Wearing Surface	Wearing Surface	2890	Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2975	Square Feet		
11	Plate Girder	Steel Open Girder/Beam	473	Feet	Inorganic Zinc Pimer with Acrylic Top Coat	4455
1	Standard Joint	Pourable Joint Seal	77	Feet		

Structure Element Scoring

Structure Number: $\frac{110173}{3}$ Inspection Date $\frac{10/25/202}{3}$

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12		Reinforced Concrete Deck	Deck	14,455	9,233	16	5,206	0
107		Steel Open Girder/Beam	Beam	2,288	2,180	22	3	83
515	107	Steel Protective Coating	Beam	21,604	21,519	0	62	23
205		Reinforced Concrete Column	Piles and Columns	21	12	2	4	3
215		Reinforced Concrete Abutment	Abutments	148	131	0	17	0
234		Reinforced Concrete Pier Cap	Caps	392	213	76	95	8
301		Pourable Joint Seal	Expansion Joints	231	211	0	20	0
316		Other Bearings	Bearing Device	88	55	6	26	1
515	316	Steel Protective Coating	Bearing Device	88	63	0	1	24
333		Other Bridge Railing	Bridge Rail	416	345	67	4	0
510		Wearing Surface	Wearing Surfaces	14,042	9,531	0	4,511	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 110173 Inspection Date: 10/25/2023

MMS Code	Element Name	Defect Name	Recommended Quantity			
3326	Reinforced Concrete Deck	Delamination/Spall	20 Square Feet			
3326	Reinforced Concrete Deck	Cracking (RC and Other)	5202 Square Feet			
3314	Steel Open Girder/Beam	Corrosion	85 Feet			
3314	Steel Open Girder/Beam	Damage	3 Feet			
3348	Reinforced Concrete Column	Exposed Rebar	4 Each			
3348	Reinforced Concrete Column	Cracking (RC and Other)	2 Each			
3348	Reinforced Concrete Column	Delamination/Spall	13 Each			
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	6 Feet			
3350	Reinforced Concrete Abutment	Delamination/Spall	11 Feet			
3348	Reinforced Concrete Pier Cap	Exposed Rebar	26 Feet			
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	59 Feet			
3348	Reinforced Concrete Pier Cap	Delamination/Spall	28 Feet			
3310	Pourable Joint Seal	Seal Damage	14 Feet			
3334	Other Bearings	Corrosion	26 Each			
3334	Other Bearings	Connection	2 Each			
3334	Other Bearings	Loss of Bearing Area	1 Each			
3318	Other Bridge Railing	Delamination/Spall	2 Feet			
3318	Other Bridge Railing	Distortion	1 Feet			
2816	6 Wearing Surface Crack (Wearing Surface)		4500 Square Feet			
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	11 Square Feet			
3342	Steel Protective Coating	teel Protective Coating Effectiveness (Steel Protective Coatings) 110 Square Feet				

Element Structure Maintenance Quantities

Structure Number: 110173 Inspection Date 10/25/2023

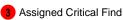
Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3314	Maintenance Steel Superstructure Components	88	2288	83.000	3.000	22.000	2180.000
Beam	3342	Clean and Paint Steel	85	21604	23.000	62.000	0.000	21519.000
Bearing Device	3334	Bridge Bearing	29	88	1.000	26.000	6.000	55.000
Bearing Device	3342	Clean and Paint Steel	25	88	24.000	1.000	0.000	63.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	3	416	0.000	4.000	67.000	345.000
Deck	3326	Maintenance of Concrete Deck	5222	14455	0.000	5206.000	16.000	9233.000
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	14	231	0.000	20.000	0.000	211.000
Wearing Surfaces	2816	Asphalt Surface Repair	4511	14042	0.000	4511.000	0.000	9531.000
Abutments	3350	Maintenance of Concrete Wings and Wall	17	148	0.000	17.000	0.000	131.000
Caps	3348	Maintenance of Concrete Substructure	113	392	8.000	95.000	76.000	213.000
Piles and Columns	3348	Maintenance of Concrete Substructure	19	21	3.000	4.000	2.000	12.000

Structure Num	nber 110173		
Span1			
3326	Deck	Reinforced Co	ncrete Deck
Priority Level	Defect Type	Quantity	Defect Description
2	Delamination/Spall	3	Span 1 Deck: (PAR) 6 inch diameter x 1 inch deep spall with exposed reinforcement. no measurable section loss. 18 inch long x 12 inch wide area of delamination along beam 8 top flange, in bay 7, at midspan.
2	Delamination/Spall	1	Span 1 Deck: (PAR) 6 inch diameter x 1/2 inch deep spall with exposed reinforcement in bay 4 near end bent 1
3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 4: (PAR) 8 inch long x full flange width x 0.55 inch remaining thickness in bottom flange with corrosion reactivating at bent 1
3314	Beam 5	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 5: (PAR) 10 inch long x 3 inch high x $3/16$ inch average remaining in the web with 3 inch long x 1.5 inch corrosion hole under the diaphragm at bent 1
3314	Beam 6	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	3	Span 1 Beam 6: (PAR) at bent 1, corrosion with section loss: web (1/4 inch average remaining x 3 foot x 8 inch); bottom flange (0.42 inch average remaining x 20 inch)
3314	Beam 7	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Beam 7: (PAR) at bent 1 active corrosion with section loss, web at diaphragm [10 inch x 2 inch x 3/16 inch average remaining] with 1/2 inch diameter corrosion hole
3314	Beam 8	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 8: (PAR) 18 inch long x up to 8 inch x 1/4 inch average remaining area of section loss in web at bent 1, spot rust present.
3318	Left Bridge Rail	Concrete and	Metal Railing
Priority Level	Defect Type	Quantity	Defect Description
2	Damage	1	Span 1 Left Bridge Rail: (PAR) impact damage to rail bracket of fourth post









Structure Number 110173

pan2			
3314	Beam 3	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 3: (PAR) 10 inch long x up to 2 inch high x 5/16 inch section remaining in the web at beam end at bent 1, spot rust present
3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 2 Beam 4: (PAR) at bent 1, corrosion with section loss: web adjacent to diaphragm (1/4 inch average remaining x 12 inch x 2.5 inch) with corrosion hole (6 inch x 1 inch); lower web (5/16 inch average remaining x 52 inch x 2 inch); bottom flange (0.55 inch average remaining x 10 inch)
2	Corrosion	3	Span 2 Beam 4: (PAR) at bent 2, corrosion with section loss: bottom flange (0.60 inch average remaining x 2.5 foot), lower web (5/16 inch average remaining x 27 inch x 2 inch), web adjacent to diaphragm (1/4 inch average remaining x 11 inch x 3 inch)
2	Damage	0	Span 2 Beam 4: (PAR) 7 foot long x 4 inch high x 4 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beams 4 and 5 at bent 1. 75 percent section remaining in the exposed reinforcement.
3314	Beam 5	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 5: (PAR) active corrosion with section loss 10 inch long x 3 inch high a 1/4 inch average remaining in the web with 3 inch long x 1.25 inch high corrosion hole under the diaphragm at bent 1
2	Corrosion	1	Span 2 Beam 5: (PAR) at bent 2, corrosion with section loss: bottom flange (0.50 inch average remaining x 8 inch); web adjacent to diaphragm (3/16 inch average remaining x 11 inch x 8 inch)
2	Damage	0	Span 2 Beam 5: (PAR) 7 foot long x 10 inch high x 3 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beam: 5 and 6 at bent 1. 70 percent section remaining in the exposed reinforcement
2	Damage	0	Span 2 Beam 5: (PAR) up to 4.5 foot long x 4 inch high x 3 inch deep spalls in south and bottom with exposed rusted reinforcement with up to 1/16 inch section loss, in the diaphragm between beams 4 and 5.
3314	Beam 6	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 6: (PAR) at bent 1, corrosion with section loss: web (1/4 inch average remaining x 54 inch x 13 inch); bottom flange (0.56 inch average remaining x 2 foot)
2	Corrosion	1	Span 2 Beam 6: (PAR) at bent 2, corrosion with section loss: web adjacent to diaphragm (3/16 inch average remaining x 10.5 inch x 2.5 inch) with corrosion hole (1.5 inch x 1/2 inch); lower web (3/8 inch average remaining x 5.5 inch x 1 inch)
2	Damage	0	Span 2 Beam 6: (PAR) 7 foot x 16 inch x up to 3 inch deep spall with exposed reinforcement in the underside and south face of the diaphragm between beams 6 and 7. 70 percent section remaining in exposed reinforcement.
3314	Beam 7	Plate Girder	

2 Assigned Priority Maintenance 3 Assigned Critical Find

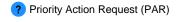
? Priority Action Request (PAR) 1 Assigned Routine Maintenance

		<u></u>	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 7: (PAR) at bent 1 active corrosion with section loss, web at diaphragm [20 inch long x 13 inch high x 1/4 inch average remaining] with multiple corrosion holes up to [3 inch x 1 inch]
2	Corrosion	1	Span 2 Beam 7: (PAR) at bent 2, painted over section loss:: bottom flange (0.50 inch average remaining x 8 inch); lower web (3/8 inch average remaining x 5 inch x 1 inch); web adjacent to diaphragm (3/16 inch average remaining x 10 inch x 3 inch)
2	Damage	0	Span 2 Beam 7: (PAR) 2 foot x 4 inch x 3 inch deep spall with exposed rusted and debonded reinforcement on south face of end diaphragm, at bent 2
2	Damage	0	Span 2 Beam 7: (PAR) 7 foot long x 4 inch high x 4 inch wide area of spalling, delamination with the exposed reinforcement in the concrete diaphragm between beams 7 and 8 at bent 1. 70 percent section remaining in the exposed reinforcement.
3314	Beam 8	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 8: (PAR) at bent 1, corrosion with section loss: web (1/4 inch average remaining x 24 inch x 12 inch) with corrosion hole (3 inch x 1 inch); bottom flange (0.56 inch average remaining x 12 inch)
2	Corrosion	2	Span 2 Beam 8: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 14 inch x 8 inch); lower web (7/16 inch average remaining x 2 foot x 3 inch)
2	Connection	1	Span 2 Beam 8 - Far Bearing 8: [PAR] West face anchor bolt not visible within nut
3318	Left Bridge Rail	Concrete and I	Metal Railing
Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	1	Span 2 Left Bridge Rail: (PAR) impact damage to left bridge rail at 3rd vertical post from bent 1. base plate is broken off along the weld and spalls under the base plate with two of four anchor bolts exposed. impact damage is above eastbound I-40 right travel lane. rail and post are intact
Span3			
3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	6	Span 3 Beam 4: (PAR) at bent 2, corrosion with section loss: bottom flange (0.56 inch average remaining x 9 inch), lower web (3/16 inch average remaining x 6 foot x 2 inch), web adjacent to diaphragm (3/16 inch average remaining x 12 inch x 2 inch)
2	Corrosion	2	Span 3 Beam 4: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 15 inch x 9 inch)
2	Damage	0	Span 3 Beam 4: (PAR) 6 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 4 and 5 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.
3314	Beam 5	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description

Structure Nur	nber <u>110173</u>	_	
2	Corrosion	3	Span 3 Beam 5: (PAR) at bent 2, corrosion with section loss: bottom flange (0.60 inch average remaining x 3 foot); web (1/4 inch average remaining x 3 foot x 12 inch) with arrested hole (1.5 inch x 1 inch)
2	Corrosion	2	Span 3 Beam 5: (PAR) at bent 3, corrosion with section loss: bottom flange (0.45 inch average remaining x 1 foot); web (1/4 in average remaining x 2 foot x 9 inch)
2	Loss of Bearing Area	1	Span 3 Near Bearing 5: (PAR) loss of bearing area (up to 1/2 inch x 3 inch)
2	Damage	0	Span 3 Beam 5: (PAR) 7 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 5 and 6 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.
3314	Beam 6	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 6: (PAR) at bent 2, corrosion with section loss: web (1/4 inch average remaining x 3 foot x 1 foot) with corrosion hole (5 inch x 2 inch); bottom flange (0.60 inch average remaining x 2.5 foot)
2	Corrosion	2	Span 3 Beam 6: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 20 inch x 10 inch); bottom flange (0.56 inch average remaining x 1 foot)
3314	Beam 7	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 3 Beam 7: (PAR) at bent 2, painted over section loss: web (1/4 inch average
2	Corrosion	1	remaining x 4.5 foot x 16 inch) Span 3 Beam 7: (PAR) at bent 3, corrosion with section loss: web adjacent to
2	Connection	1	diaphragm (3/8 inch average remaining x 10 inch x 5 inch) Span 3 Near Bearing 7: (PAR) east weld between sole and masonry plate, broken
3314	Beam 8	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 8: (PAR) at bent 2, corrosion with section loss: web adjacent to diaphragm (3/16 inch average remaining x 16 inch x 2.5 inch); lower web (1/4 inch average remaining x 20 inch x 2 inch); bottom flange (0.50 inch average remaining x 9 inch)
2	Corrosion	3	Span 3 Beam 8: (PAR) at bent 3, corrosion with section loss: web adjacent to diaphragm (1/4 inch average remaining x 1 foot x 8 inch); lower web (1/4 inch average remaining x 32 inch x 2 inch); bottom flange (0.50 inch average remaining x 18 inch)
2	Damage	1	Span 3 Beam 8: (PAR) 3 foot long x 6 inch wide x 3 inch high spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 70 percent section remaining in exposed reinforcement.
Span4			
3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	6	Span 4 Beam 4: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 5.5 foot x 10 inch) with corrosion holes (up to 1 inch x 1/2 inch); bottom flange (0.45 inch average remaining x 4 foot)

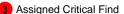
Structure Number 110173

3314	Beam 5	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 4 Beam 5: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 6 foot x 1 foot) with corrosion holes (6 inch x 1.5 inch); bottom flange (0.56 inch average remaining x 15 inch)
3314	Beam 6	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	4	Span 4 Beam 6: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 32 inch x 12 inch)
3314	Beam 7	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	8	Span 4 Beam 7: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 8 foot x 12 inch) with corrosion holes (up to 1/4 inch diameter); bottom flange (0.45 inch average remaining x 26 inch)
3314	Beam 8	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	4	Span 4 Beam 8: (PAR) at bent 3, corrosion with section loss: web (1/4 inch average remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch)
2	Corrosion	0	
-			remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) Span 4 Beam 8: (PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent
2		0	remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) Span 4 Beam 8: (PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent
2 Bent 1	Damage	0	remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) Span 4 Beam 8: (PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent section remaining in exposed reinforcement.
Bent 1 3348 Priority	Damage Cap 1	0 Reinforced Co	remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) Span 4 Beam 8: (PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent section remaining in exposed reinforcement.
Bent 1 3348 Priority Level	Damage Cap 1 Defect Type	0 Reinforced Co	remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) Span 4 Beam 8: (PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent section remaining in exposed reinforcement. Defect Description Bent 1 Cap 1: (PAR) South and top face between beams 7 and 8, spall/delamination [4.5 foot x up to 3.5 foot x up to 4 inch deep] with 4 vertical and 1 horizontal exposed rusted reinforcing with up to 1/16 inch section loss. no loss of bearing area
Bent 1 3348 Priority Level	Cap 1 Defect Type Exposed Rebar	Reinforced Co. Quantity 9	remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) Span 4 Beam 8: (PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent section remaining in exposed reinforcement. Defect Description Bent 1 Cap 1: (PAR) South and top face between beams 7 and 8, spall/delamination [4.5 foot x up to 3.5 foot x up to 4 inch deep] with 4 vertical and 1 horizontal exposed rusted reinforcing with up to 1/16 inch section loss. no loss of bearing area









Structure Num	nber 110173		
Bent 2			
3348	Cap 1	Reinforced Co	ncrete Pier Cap
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	2	Bent 2 Cap 1: (PAR) (3) up to 1.5 foot x 1 foot wide x 1/2 inch deep spall with exposed rusted reinforcement, 80 percent remaining on underside of cap between columns 5 and 6
2	Exposed Rebar	2	Bent 2 Cap 1: (PAR) south face, below beam 4, spall/delamination (18 inch x 38 inch x 1.5 inch deep) with exposed and debonded rebar
2	Exposed Rebar	8	Bent 2 Cap 1: (PAR) south face, in bay 6, spall/delamination (8 foot x 4 foot x 1.5 inch deep) with exposed rusted rebar (approximately 75 percent remaining) and cracks (up to 1/16 inch)
2	Exposed Rebar	5	Bent 2 Cap 1: [PAR] bottom face of cap between columns 4 and 5, spall/delamination [5 foot long x full width x up to 3 inch deep] with seven exposed rusted reinforcing with 80 percent remaining
3348	Pile 3	Reinforced Co	ncrete Column
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 2 Pile 3: (PAR) Southeast corner 5 foot from the ground, delamination/spall [28 inch wide x 9.5 foot x up to 4 inch deep] with [1] primary exposed rusted reinforcing [75 percent remaining]
3348	Pile 4	Reinforced Co	ncrete Column
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 2 Pile 4: (PAR) north face, at ground, spall/delamination (full width x 7.5 foot high x 3 inch deep) extends into east and west faces (up to 7 inch) with exposed rusted and debonded rebars
3348	Pile 5	Reinforced Co	ncrete Column
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 2 Pile 5: (PAR) Southwest corner below cap, delamination/spall [7 foot high x up to full width x up to 3 inch deep] with two exposed rusted reinforcing, 70 percent section remaining in the exposed reinforcement.
Bent 3			
3348	Pile 3	Reinforced Co	ncrete Column
Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 3 Pile 3: (PAR) Southeast corner above barrier rail, spall/delamination [10 foot high x up to full width x up to 4 inch deep] with primary debonded exposed rusted reinforcing 75 percent remaining
3348	Pile 5	Reinforced Co	ncrete Column

2 Assigned Priority Maintenance 3 Assigned Critical Find

? Priority Action Request (PAR) 1 Assigned Routine Maintenance

Structure Number 110173

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	1	Bent 3 Pile 5: (PAR) 6.5 foot high x 20 inch wide x 3.5 inch deep spall and delaminated concrete with one debonded primary exposed reinforcement on south east corner of pile. 80 percent section remaining in exposed reinforcement.

Approach Guardrail and **Barriers**

3120 Approach Guardrail and **Barriers**

Approach Guardrail and Barriers

Priority Level	Defect Type	Quantity	Defect Description
2		1	(PAR) northwest guardrail attachment, improper lap
2		13	(PAR) northwest guardrail, 55 foot from end bent 2, impact damage (12.5 foot)
2		1	(PAR) southeast guardrail attachment, improper lap
2		9	(PAR) southeast guardrail, 3 foot from end bent 1, impact damage (9 foot)
2		50	(PAR) along end bent 1 slope protection, homeless debris (full length)
2		50	(PAR) along end bent 2 slope protection, homeless debris (full length)

Element Condition and Maintenance Data

Structure Number: 110173 Inspection Date: 10/25/2023

Span	1	Deck						
Reinf	orced Concrete	Deck						
Eleme Numb	per	Element Name ced Concrete Deck	Total Qty 3,430	CS1 Qty 2,214	CS2 Qty 12	CS3 Qty 1,204	CS4 Qty 0 S	quare Feet
Element Number	Defect Type	Defect De	escription		cs	CS Qty	Maint Qty	
	Cracking (RC and Other)	throughout underside of deck, t to 1/16 inch x full bay width) an inch) at random			3	1,200	-	Square Feet
12	Delamination/Spall	(PAR) 6 inch diameter x 1 inch exposed reinforcement. no mea 18 inch long x 12 inch wide are along beam 8 top flange, in bay	asurable section loss. a of delamination		3	3	3	Square Feet
12	Delamination/Spall	(PAR) 6 inch diameter x 1/2 inc exposed reinforcement in bay 4			3	1	1	Square Feet
	Cracking (RC and Other)	left overhang, at bent 1, delami	nation (2 foot x 6 inch)		2	2	2	Square Feet
12	Delamination/Spall	(2) up to 2 foot wide x 12 inch le delamination in deck underside			2	4	4	Square Feet
12 [Delamination/Spall	underside of deck, bay 2, at en(2) delaminations (up to 3 foot)			2	6	6	Square Feet
	Cracking (RC and Other)	(combined with other notes 202 width transverse cracks in unde scattered. typical for bay 5.			1			Square Feet
	Cracking (RC and Other)	(combined with other notes 202 wide full width transverse crack in bay 2, scattered.			1			Square Feet
	Cracking (RC and Other)	(combined with other notes 202 width transverse cracks in unde			1			Square Feet
	Cracking (RC and Other)	(combined with other notes 202 wide full width transverse crack in bay 1, scattered.			1			Square Feet

Spa	n 1	Beam 4						
Plat	e Girder							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Ste	eel Open Girder/Beam	49	48	0	0	1	Feet
515	Ste	eel Protective Coating	465	464	0	1	0	Square Feet
Elemen Numbe	Dofoot Tyr	e Defect Des	cription		CS	CS Qty	Maint Qty	
√ 107	Corrosion	(PAR) 8 inch long x full flange wi remaining thickness in bottom fla reactivating at bent 1			4	1		1 Feet
√ 107	Damage	6 inch x 4 inch x full depth spall was reinforcement and up to 1/8 inch longitudinal crack along the south diaphragm near the bottom betwat bent 1	wide x 7 foot long h face of the		3			Feet
✓ 107	Corrosion	at bent 1, painted over pitting up inch x 7 inch with corrosion react			2			Feet
√ 515	Effectiveness (Si Protective Coatin		-		3	1		1 Square Feet

Spa	an 1	Beam 5						
Pla	te Girder							
	ement Imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel O _l	oen Girder/Beam	49	48	0	0	1	Feet
515	Steel Pr	otective Coating	465	464	0	1	0	Square Feet
Eleme Numbe	Defect Type	Defect Descrip	otion		cs	CS Qty	Maint Qty	
√ 107	Corrosion	(PAR) 10 inch long x 3 inch high x 3 remaining in the web with 3 inch long corrosion hole under the diaphragm	g x 1.5 inch		4	1	-	1 Feet
√ 107	Damage	multiple up to 1/8 inch wide x up to follongitudinal cracks along the south follonghragm near the bottom between at bent 1	ace of the		3			Feet
√ 515	Effectiveness (Steel Protective Coatings)	surface rust			3	1		1 Square Feet
	General Comments							

Spa	n 1	В	eam 6					
Plat	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	5	Steel Open Girder/Beam	49	46	0	0	3	Feet
515	5	Steel Protective Coating	465	461	0	4	0	Square Feet
Elemer Numbe	Dofoot T	уре	Defect Description		cs	CS Qty	Maint Qty	
√ 107	Corrosion	inch average remainir	ted over section loss: web (1/4 ng x 3 foot x 8 inch); bottom rage remaining x 20 inch) with		4	3		3 Feet
✓ 107	Damage		7 foot long longitudinal crack of the diaphragm near the ns 6 and 7 at bent 1		3			Feet
✓ 107	Corrosion	corrosion with section	notes 2023) bent 1 active n loss, bottom flange [20 inch n x 0.5 inch average remaining	g]	1			Feet
√ 515	Effectiveness (Protective Coa				3	4		4 Square Feet
	General Comm	ents						

Span 1		Beam 7						
Plate Gir	der							
Element Number	Element I	Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Bear	m	49	48	0	0	1	Feet
515	Steel Protective Coating	9	465	464	0	0	1	Square Feet
lement umber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Number: <u>110173</u>			Insped	ction D	ate: 10/25/2023
√ 107	Corrosion	(PAR) at bent 1 active corrosion with section loss, web at diaphragm [10 inch x 2 inch x 3/16 inch average remaining] with 1/2 inch diameter corrosion hole	4	1	1	Feet
✓ 107	Damage	diaphragm between beams 7 and 8 at bent 1, spall/delamination [full width x up to 6 inch high x up to 3 inch deep]	3			Feet
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1	Square Feet
	General Comments					

Spa Plat	n 1 e Girder	Beam 8						
Elen Nun	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel C	Open Girder/Beam	49	47	0	0	2	Feet
515	Steel F	Protective Coating	465	463	0	2	0	Square Feet
Elemen	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
√ 107	Corrosion	(PAR) 18 inch long x up to 8 inch remaining area of section loss in rust present.			4	2	:	2 Feet
✓ 515	Effectiveness (Steel Protective Coatings)	surface rust			3	2	:	2 Square Feet
7	General Comments							

Spa	an 1	Wearing Surface	е					
Asp	ohalt Wearing Surfa	ace						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	Surface	3,332	2,324	0	1,008	0 S	quare Feet
Elemei Numbe	Defeat Type	Defect Description	1		CS	CS Qty	Maint Qty	
√ 510	Crack (Wearing Surface)	throughout asphalt wearing surface, part transverse and longitudinal cracks (up to 8 foot)	•		3	1,000	1,000	Square Feet
√ 510	Patched Area/Pothole (Wearing Surface)	7 foot long x 16 foot wide x 1 inch deep failed/depressed patch in center of south near end bent 1	nbound lane		3	7	7	Square Feet
√ 510	Patched Area/Pothole (Wearing Surface)	left shoulder of asphalt over end bent 1, pothole/broken asphalt [6 foot x 8 inch x deep]			3	1	1	Square Feet
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) 9 - up wide x 3 foot long transverse cracks, sca southbound left lanes and left shoulder			1			Square Feet
	General Comments							

Spa	an 1	Left Bridge	Rail							
Cor	Concrete and Metal Railing									
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty			
333	Other B	ridge Railing	49	38	10	1	0 Feet			
Elemer Numbe	Defect Type	Defect Descri	ption		cs	CS Qty	Maint Qty			
✓ 333	Connection	(PAR) impact damage to rail bracket	et of fourth post		3	1	Feet			
✓ 333	Damage	fourth post, impact damage			3		Feet			
✓ 333	Cracking (RC and Other)	along the length of parapet, vertical 1/32 x full height) at random	cracks (up to		2	10	Feet			
	General Comments							_		

Spa	ın 1	Right Bri	dge Rail					
Con	ncrete and M	letal Railing						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	(Other Bridge Railing	49	44	5	0	0 Feet	
Elemen Numbe	Dofoot T	ype Defect De	scription		cs	CS Qty	Maint Qty	
✓ 333	Cracking	along the length of parapet, veri 1/32 x full height) at random	tical cracks (up to		2	5	Fe	et
✓ 333	Damage	(2023 moved to general notes)	moderate to heavy		1		Fee	et

Spa	an 1		Near Bearing 2						
Oth	ner Bearing								
	ement Imber	Element Name	•	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Bearings		1	0	1	0	0	Each
515		Steel Protective Coating		1	0	0	0	1	Square Feet
Eleme Numb	Dofoot T	уре	Defect Description			cs	CS Qty	Maint Qty	
✓ 316	Corrosion	surface rust/rust s	cale			2	1		Each
√ 515	Effectiveness Protective Coa		cale			4	1	•	I Square Feet
	General Comp	nents							

Span 1		Near Bearing 4						
Other B	earing							
Element Number	Element Na	ame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	1	0	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet
lement lumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Number: <u>110173</u>		Inspection Date: 10/25/2023		
✓ 316	Corrosion	surface rust/rust scale	2	1	Each
√ 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale	4	1 1	Square Feet
	General Comments				

Span 1		Far Bea	aring 4					
Other Bo	earing							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	1	0	0	0	Square Feet
Element Number	Defect Type	Defect	Description		cs	CS Qty	Maint Qty	
7 316 Corr	rosion	arrested pack rust and sectio and sole plate. 80 percent se			3	1	-	1 Each
Gene	eral Comments	· ·						

•	an 1 ner Bea	ıring		Far Bearing 5						
Ele	ment mber	Other Bo	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Each
515			otective Coating		1	0	0	1	_	Square Feet
Elemei Numbe		efect Type		Defect Description			cs	CS Qty	Maint Qty	
✓ 316	Corros	ion	surface rust				2	1	-	Each
√ 515		veness (Steel tive Coatings)	surface rust				3	1		1 Square Feet
	General	l Comments								

Spa	an 1	Far Bearing	g 6					
Oth	er Bearing							
Nu	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Fach
316 515	Other B Steel P	earings rotective Coating	1	0	0	1 0	_	Each Square Feet
Elemer Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
√ 316	Corrosion	active pack rust and section loss in and sole plate. 80 percent section anchor bolt nut 60 percent remain	remaining. west		3	1		1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
	General Comments							

Spa	an 1			Far Bearing 7						
Oth	er B	earing								
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Be	earings		1	0	1	0	0	Each
515		Steel Pro	otective Coating		1	0	0	0	1	Square Feet
Elemer Numbe		Defect Type		Defect Description			cs	CS Qty	Maint Qty	
✓ 316	Corr	rosion	surface rust/rust sca	le			2	1	-	Each
√ 515		ctiveness (Steel ective Coatings)	surface rust/rust sca	le			4	1		1 Square Feet
	Gene	ral Comments								

Spa Oth	nn 1 er Bearing	Far Bearin	g 8					
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	active pack rust and section loss i and sole plate. 80 perent section i	, ,		3	1		1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet

Spa	n 1	Near Bea	ring 11					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other E	Bearings	1	0	1	0	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoot Typo	Defect De	scription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	surface rust/rust scale			2	1		Each
√ 515	Effectiveness (Steel Protective Coatings)	surface rust/rust scale			4	1		1 Square Feet
	General Comments							

Spar Rein	າ 2 forced Concrete	Deck Deck						
Elem Num 12	ber	Element Name ced Concrete Deck	Total Qty 4,025	CS1 Qty 2,525	CS2 Qty 0	CS3 Qty 1,500	CS4 Qty 0 S	quare Feet
Element Number	Dofoot Typo	Defect De	escription		cs	CS Qty	Maint Qty	
	Cracking (RC and Other)	throughout underside of deck, t to 1/16 inch x full bay width) and inch) at random			3	1,500	1,500	Square Feet

Structure	Number: <u>110173</u>			Inspection Date: <u>10/25/2023</u>
√ 12	Cracking (RC and Other)	(combined with other notes 2023) 2 - hairline transverse full width cracks in deck underside, bay 1, at both interior diaphragms.	1	Square Feet
√ 12	Cracking (RC and Other)	(combined with other notes 2023) 2 - hairline transverse full width cracks in deck underside, bay 3, at both interior diaphragms.	1	Square Feet
√ 12	Cracking (RC and Other)	(Moved to wearing service 10/26/21) 5 - up to 1/8 inch wide x 3 foot long transverse cracks, scattered in southbound left lane.	1	Square Feet

Spa	n 2	Beam 3						
Plat	e Girder							
	nent nber Steel O	Element Name pen Girder/Beam	Total Qty 58	CS1 Qty 57	CS2 Qty	CS3 Qty 0	CS4 Qty	
515	Steel P	rotective Coating	547	545	0	2	0	Square Feet
Elemen Numbe	Defeat Time	Defect Des	cription		cs	CS Qty	Maint Qty	
√ 107	Corrosion	(PAR) 10 inch long x up to 2 inch section remaining in the web at b spot rust present			4	1		1 Feet
√ 515	Effectiveness (Steel Protective Coatings)	surface rust			3	2		2 Square Feet
	General Comments							

Spa	ın 2	Beam 4						
Plat	te Girder							
	ment nber	Element Name Steel Open Girder/Beam	Total Qty 58	CS1 Qty 50	CS2 Qty	CS3 Qty	CS4 Qty 8 Fe	eet
515		Steel Protective Coating	547	537	0	10		quare Feet
Elemer Numbe	Dofoot	Type Defect Desc	cription		cs	CS Qty	Maint Qty	
107	Corrosion	(PAR) at bent 1, painted over sec adjacent to diaphragm (1/4 inch a 12 inch x 2.5 inch) with corrosion inch); lower web (5/16 inch avera inch x 2 inch); bottom flange (0.55 remaining x 10 inch) with corrosio	verage remaining x hole (6 inch x 1 ge remaining x 52 5 inch average		4	5	•	Feet
107	Corrosion	(PAR) at bent 2, painted over sec flange (0.60 inch average remaini web (5/16 inch average remainin inch), web adjacent to diaphragm remaining x 11 inch x 3 inch) with reinitiated	ng x 2.5 foot), lower g x 27 inch x 2 (1/4 inch average		4	3	3	Feet
√ 107	Damage	(PAR) 7 foot long x 4 inch high x 4 spall, delamination with exposed concrete diaphragm between bea 1. 75 percent section remaining ir reinforcement.	reinforcement in the ms 4 and 5 at bent		4			Feet
√ 107	Corrosion	(combined with other notes 2023) with section loss 8 inch long x full inch section remaining in bottom f	flange width x 0.55		1			Feet

Structure Number: 110173 Inspection Date: <u>10/25/2023</u>

Effectiveness (Steel Protective Coatings) **√** 515

General Comments

surface rust

3

10 Square Feet

Span	2	Beam 5						
Plate	Girder							
Eleme Numb		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	St	teel Open Girder/Beam	58	56	0	0	2	Feet
515	St	teel Protective Coating	547	545	0	0	2	Square Feet
Element Number	Defect Ty	pe Defect Desc	ription		cs	CS Qty	Maint Qty	
7 107 C	Corrosion	(PAR) active corrosion with section x 3 inch high x 1/4 inch average rewith 3 inch long x 1.25 inch high of under the diaphragm at bent 1	emaining in the web		4	1		1 Feet
7 107 C	Corrosion	(PAR) at bent 2, painted over sect flange (0.50 inch average remaining adjacent to diaphragm (3/16 inch ax 11 inch x 8 inch) with corrosion research	ng x 8 inch); web average remaining		4	1		1 Feet
2 107 D	Damage	(PAR) 7 foot long x 10 inch high x spall, delamination with exposed the concrete diaphragm between l bent 1. 70 percent section remaini reinforcement	reinforcement in beams 5 and 6 at		4			Feet
7 107 D	Damage	(PAR) up to 4.5 foot long x 4 inch spalls in south and bottom with ex reinforcement with up to 1/16 inch diaphragm between beams 4 and	posed rusted section loss, in the		3			Feet
7 107 C	Corrosion	(combined with other notes 2023) corrosion with section loss, bottom [full width x 2 inch x average rema	n flange at bearing		1			Feet
	Effectiveness (S Protective Coati				4	2	:	2 Square Feet
	Effectiveness (S Protective Coati				1			Square Feet
Ge	eneral Comme	ents	·					

Span	2		Beam	6					
Plate	Girder								
Elem Numi			Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Open G	irder/Beam	58	52	0	0	6	Feet
515		Steel Protecti	ve Coating	547	541	0	6	0	Square Feet
Element Number	Defect 7	Гуре	Defec	t Description		cs	CS Qty	Maint Qty	
√ 107	Corrosion	inc flar		er section loss: web (1/4 4 inch x 13 inch); bottom emaining x 2 foot) with		4	5	·	5 Feet
√ 107	Corrosion	adj x 1 1/2	0.5 inch x 2.5 inch) with	6 inch average remaining corrosion hole (1.5 inch x ch average remaining x 5.		4	1		1 Feet

Structure	Number: <u>110173</u>			Inspection D	ate: 10/25/2023
√ 107	Damage	(PAR) 7 foot x 16 inch x up to 3 inch deep spall with exposed reinforcement in the underside and south face of the diaphragm between beams 6 and 7. 70 percent section remaining in exposed reinforcement.	4		Feet
√ 107	Corrosion	(combined with other notes 2023) active corrosion with section loss 24 inch long x full flange width x 0. 45 inch remaining thickness in bottom flange at bent 1.	1		Feet
√ 107	Corrosion	(combined with other notes 2023) active spot rust along web at bent 2	1		Feet
✓ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	6 6	Square Feet
√ 515	Effectiveness (Steel Protective Coatings)	(combined with other notes 2023) spot rust	1		Square Feet
	General Comments				

Spa	an 2	Beam 7						
Plat	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel C	pen Girder/Beam	58	55	0	0	3	Feet
515	Steel F	Protective Coating	547	544	0	0	3	Square Feet
Elemer Numbe	Defect Time	Defect Descr	iption		cs	CS Qty	Maint Qty	
√ 107	Corrosion	(PAR) at bent 1 active corrosion wi web at diaphragm [20 inch long x 1 inch average remaining] with multip up to [3 inch x 1 inch]	3 inch high x 1/4		4	2	2	? Feet
√ 107	Corrosion	(PAR) at bent 2, painted over sectiflange (0.50 inch average remainin web (3/8 inch average remaining x web adjacent to diaphragm (3/16 ir remaining x 10 inch x 3 inch)	g x 8 inch); lower 5 inch x 1 inch);		4	1	1	Feet
√ 107	Damage	(PAR) 7 foot long x 4 inch high x 4 spalling, delamination with the experiment the concrete diaphragm betwee bent 1. 70 percent section remaining reinforcement.	osed reinforcement n beams 7 and 8 at		4			Feet
√ 107	Damage	(PAR) 2 foot x 4 inch x 3 inch deep exposed rusted and debonded rein south face of end diaphragm, at be	forcement on		3			Feet
√ 107	Corrosion	(combined with other notes 2023) 1 flange width x 0.5 inch thickness rebottom flange at bent 2. no active of	maining in the		1			Feet
√ 107	Damage	(combined with other notes 2023) 7 inch wide crack in the north face of between beams 6 and 7.			1			Feet
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	3	3	Square Feet
√ 515	Effectiveness (Steel Protective Coatings)	(combined with other notes 2023) of section loss	corrosion with		1			Square Feet
	General Comments							

Spa	n 2	Beam 8						
•		Beam 0						
Plate	e Girder							
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel	Open Girder/Beam	58	54	0	0	4	Feet
515	Steel	Protective Coating	547	543	0	4	0	Square Feet
Elemen Number	Dofoot Typo	Defect De	scription		cs	CS Qty	Maint Qty	
<u>/</u> 107	Corrosion	(PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 24 inch x 12 inch) with corrosion hole (3 inch x 1 inch); bottom flange (0.56 inch average remaining x 12 inch) with corrosion reinitiated			4	2		2 Feet
<u>/</u> 107	Corrosion	(PAR) at bent 2, painted over se adjacent to diaphragm (1/4 inch 14 inch x 8 inch); lower web (7/1) remaining x 2 foot x 3 inch)	average remaining x		4	2		2 Feet
/ 107	Damage	(combined with beam 7 notes 2 between beams 7 and 8, spall [I up to 3 inch deep] with exposed to 1/16 inch section loss	full length x 14 inch x		1			Feet
√ 515	Effectiveness (Steel	surface rust			3	4		4 Square Feet

Sp	an 2	Expansion	n Joint at Bent 1					
Sta	andard Joint							
	ement umber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	F	ourable Joint Seal	77	75	0	2	0 Feet	
Eleme Numb	Dofoot To	rpe Defect Des	scription		cs	CS Qty	Maint Qty	
✓ 301	Seal Damage	southbound turn lane, missing segon	eal material (2 foot x		3	2	2 Feet	
	General Commo	ents						

Spa	n 2	Wearing \$	Surface						
Asp	halt Wearing Surfa	ace							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
510	Wearing	Surface	3,910	2,407	0	1,503	0 S	quare Feet	
Elemen Numbe	Dofoct Typo	Defect De	scription		cs	CS Qty	Maint Qty		
√ 510	Crack (Wearing Surface)	throughout asphalt wearing surfitransverse and longitudinal crack 8 foot)			3	1,500	1,500	Square Feet	
√ 510	Patched Area/Pothole (Wearing Surface)	at right Southbound lane adjace 2, unsound patch/pothole [32 ind depth]	,		3	3	3	Square Feet	
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) inch wide x 3 foot long transvers cracks, scattered in southbound	e and longitudinal		1			Square Feet	

Structure I	Number: <u>110173</u>		Inspection Date: <u>10/25/2023</u>	
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 3 foot long transverse and longitudinal cracks, scattered, in right shoulder.	1	Square Feet
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 5 foot long transverse and longitudinal cracks, scattered, in left shoulder.	1	Square Feet

Spa	an 2	Left Bridge	Rail					
Co	ncrete and Metal I	Railing						
Nu	ement imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	Qty	CS4 Qty	
333	Other E	Bridge Railing	58	47	10	1	0 Feet	
Eleme Numb	Dofoct Typo	Defect Descr	ription		cs	CS Qty	Maint Qty	
✓ 333	Damage	3rd post from bent 1, impact dama	ge		3		Feet	
√ 333	Distortion	(PAR) impact damage to left bridge post from bent 1. base plate is broweld and spalls under the base pla anchor bolts exposed. impact dam eastbound I-40 right travel lane. ra intact	ken off along the ite with two of four age is above		3	1	1 Feet	
√ 333	Cracking (RC and Other)	along the length of parapet, vertica 1/32 x full height) at random	ll cracks (up to		2	10	Feet	
	General Comments							

Spa	Span 2		Right Bı	ridge Rail							
Coi	Concrete and Metal Railing										
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty			
333		Other Br	idge Railing	58	52	6	0	0 Fee	t		
Elemei Numbe	Dofoot	Туре	Defect D	escription		cs	CS Qty	Maint Qty			
✓ 333	Cracking		along the length of parapet, ve 1/32 x full height) at random	ertical cracks (up to		2	6	F	eet		
	General Com	ments									

Spa Othe	n 2 er Bearing	Near Bearin	g 4					
Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	otective Coating	1	0	0	0	1	Square Feet
Element Number	Dofoot Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	active pack rust and section loss in and sole plate. 75 percent section r			3	1		1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet

General Comments

Spa	ın 2	Far Bear	ing 4					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other E	Bearings	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoot Typo	Defect De	escription		cs	CS Qty	Maint Qty	
√ 316	Corrosion	active pack rust and section los and sole plate. 75 percent sect	, ,		3	1		I Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		I Square Feet
•	General Comments							

Spa	n 2	Near Beari	ng 5					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	active pack rust and section loss and sole plate. 80 percent section	, ,		3	1		1 Each
√ 515	Effectiveness (Steel Protective Coatings)	pack rust/ corrosion with section I	oss		4	1		1 Square Feet
-	General Comments							

Spa	an 2	Far Bear	ring 5					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Pr	rotective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Dofoot Typo	Defect D	escription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	corrosion with section loss (up masonry plate and sole plate	to 1/8 inch loss) on		3	1	1	I Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	1	I Square Feet
	General Comments							

Span 2 Near Bearing 6 Other Bearing									
Eleme Numb		Element Name	•	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	,
316		Other Bearings		1	0	1	0	0	Each
515		Steel Protective Coating		1	0	0	0	1	Square Feet
Element Number	Defect	Туре	Defect Description			cs	CS Qty	Maint Qty	
316 C	orrosion	rust scale				2	1		Each

√ 515

Effectiveness (Steel Protective Coatings)

rust scale

4 1 Square Feet

General Comments

Spa	ın 2	Far Bearin	ng 6					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	active pack rust and section loss and sole plate. 80 percent sectio			3	1	•	I Each
✓ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	•	I Square Feet
	General Comments							

Spa	an 2	Near E	Bearing 7					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel P	rotective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Dofoct Typo	Defec	t Description		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	active pack rust and section and sole plate. 80 percent s	, ,		3	1	•	1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	•	1 Square Feet
	General Comments							

Spa Oth	n 2 er Bearing	Far Bearing	g 7					
	ment nber Other Bo	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Each
515		otective Coating	1	0	0	0	_	Square Feet
Elemen Numbe	Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
√ 316	Corrosion	active pack rust arrested when pa in masonry and sole plates with 7 remaining.			3	1		1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	,	1 Square Feet

Span Othe	n 2 r Bearing		Near Bear	ing 8					
Elem Numi		E	ement Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Bearings		1	0	0	1	0	Each
515		Steel Protective	e Coating	1	1	0	0	0	Square Feet
Element Number	Defect	Туре	Defect Des	scription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion		ted pack rust and section lo ercent section remaining.	ss in masonry plate.		3	1		1 Each

General Comments

	Far Bearin	g 8					
earing							
	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Other B	Bearings	1	0	0	1	0 Eac	h
Steel P	rotective Coating	1	1	0	0	0 Squ	are Feet
Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
nection	[PAR] West face anchor bolt not	visible within nut		3	1	1 E	ach
	Other E Steel P	Element Name Other Bearings Steel Protective Coating Defect Type Defect Deser	Element Name Qty Other Bearings 1 Steel Protective Coating 1 Defect Type Defect Description	Element Name Other Bearings 1 0 Steel Protective Coating 1 1 Defect Type Defect Description	Element Name Other Bearings 1 0 0 Steel Protective Coating 1 1 0 Defect Type Defect Description CS1 CS2 Oty	Element Name Other Bearings 1 0 0 1 Steel Protective Coating Defect Description CS CS Qty	Element Name Other Bearings Steel Protective Coating Defect Type Total Oty

General Comments

Sp	an 3	Deck						
Re	inforced Concrete	Deck						
	ement umber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	4,025	2,521	4	1,500	0 S	quare Feet
Eleme Numb	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
√ 12	Cracking (RC and Other)	throughout underside of deck, tran to 1/16 inch x full bay width) and m inch) at random	\ .		3	1,500	1,500	Square Feet
√ 12	Delamination/Spall	at bent 3, both overhangs, (2) dela 5 foot x 6 inch)	aminations (up to 1.		2	4	4	Square Feet
	General Comments		·	·			·	-

Span 3 Beam 1 **Plate Girder** CS1 CS2 CS3 CS4 **Element** Total Number **Element Name** Qty Qty Qty Qty Qty 107 Steel Open Girder/Beam 58 2 0 Feet 56 0 515 Steel Protective Coating 547 0 0 1 Square Feet 546 Element Maint **Defect Type Defect Description** CS CS Qty Number Qty 2 **√** 107 at bent 2, web, rust scale (10 inch) Corrosion Feet 2 Feet **√** 107 Damage impact damage

Structure Number: 110173

Inspection Date: 10/25/2023

107 Distortion

(2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes

1 Square Feet

1 Square Feet

General Comments

General Comments

reinitiated

•	an 3 te Girder		Beam 2						
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Op	oen Girder/Beam	58	57	1	0	0	Feet
515		Steel Pr	otective Coating	547	547	0	0	0	Square Feet
Elemer Numbe	Dofoct	Туре	Defect De	scription		cs	CS Qty	Maint Qty	
√ 107	Damage		painted impact damage			2			Feet
√ 107	Distortion		2023 new paint repair, previous SUPPLEMENTAL INSPECTION 2021 :scattered scrapes			2	1		Feet

Spa Plat	nn 3 te Girder		Beam 3						
Nui	ment mber	Elemen		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Open Girder/Be	am	58	57	1	0	0	Feet
515		Steel Protective Coati	ng	547	547	0	0	0	Square Feet
Elemer Numbe	Defect	Туре	Defect Descri	otion		cs	CS Qty	Maint Qty	
√ 107	Damage	painted imp	act damage			2		-	Feet

Span 3		Beam 4						
Plate Gird	der							
Element Number 107	Si	Element Name teel Open Girder/Beam	Total Qty 58	CS1 Qty 49	CS2 Qty	CS3 Qty	CS4 Qty	
515	St	teel Protective Coating	547	539	0	8	0	Square Feet
lement lumber	Defect Ty	pe Defect Desc	cription		cs	CS Qty	Maint Qty	
107 Corros	sion	(PAR) at bent 2, painted over sec flange (0.56 inch average remaining web (3/16 inch average remaining web adjacent to diaphragm (3/16 remaining x 12 inch x 2 inch) with	ing x 9 inch), lower g x 6 foot x 2 inch), inch average		4	6		6 Feet

Structure	Number: <u>110173</u>			Inspection	Date: <u>10/25/2023</u>
√ 107	Damage	(PAR) 6 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 4 and 5 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.	4		Feet
√ 107	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 15 inch x 9 inch)	3	2 2	2 Feet
√ 107	Damage	impact damage	2		Feet
√ 107	Distortion	(2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: scattered scrapes	2	1	Feet
√ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	8 8	3 Square Feet
	General Comments				<u> </u>

Spa	ın 3		Beam 5						
Plat	te Girder								
	ment mber	Element N Steel Open Girder/Beam		Total Qty 58	CS1 Qty 53	CS2 Qty	CS3 Qty	CS4 Qty	Feet
515		Steel Protective Coating		547	542	0	5		Square Feet
Elemer Numbe	Dofoot T	уре	Defect Descrip	tion		cs	CS Qty	Maint Qty	
√ 107	Corrosion	flangé (0.60 ir (1/4 inch aver	2, painted over section nch average remaining age remaining x 3 foot x 1 inch) with corrosion	x 3 foot); web x 12 inch) with		4	3	•	3 Feet
√ 107	Corrosion	flange (0.45 ir	3, painted over section nch average remaining e remaining x 2 foot x 9 itiated	x 1 foot); web		4	2	:	2 Feet
√ 107	Damage	area of spall i 6 at bent 2 wi	ong x up to 3 inch high n the diaphragm betwe th exposed reinforceme ning in the exposed reir	en beams 5 and ent. 70 percent		4			Feet
√ 107	Damage		delamination with crac			3			Feet
√ 107	Corrosion	(combined with section lo	h other notes 2023) across 22 inch long x full fland remaining in bottom f	tive corrosion ange width x 0.		1			Feet
√ 515	Effectiveness Protective Coa	•				3	5	:	5 Square Feet

Span 3		Beam 6						
Plate Gi	irder							
Element Number	Element Nam	ie	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam		58	55	0	0	3	Feet
515	Steel Protective Coating		547	544	0	3	0	Square Feet
lement lumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Number: <u>110173</u>			Inspection	Date: 10/25/2023
√ 107	Corrosion	(PAR) at bent 2, painted over section loss: web (1/4 inch average remaining x 3 foot x 1 foot) with corrosion hole (5 inch x 2 inch); bottom flange (0.60 inch average remaining x 2.5 foot) with corrosion reinitiated	4	1	1 Feet
√ 107	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 20 inch x 10 inch); bottom flange (0.56 inch average remaining x 1 foot) with corrosion reinitiated	4	2	2 Feet
√ 107	Damage	spall/delamination 7 foot x 10 inch x 2 inch deep with exposed rusted rebar in north face of end diaphragm between beams 6 and 7 at bent 2	3		Feet
√ 107	Corrosion	(combined with other notes 2023) active corrosion with section loss 20 inch long x full flange width x up to 0.33 inch section remaining in bottom flange, starting at beam end	1		Feet
√ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	3	3 Square Feet
	General Comments				

Spa	an 3	Beam 7						
Plat	te Girder							
	ment mber Steel	Element Name Open Girder/Beam	Total Qty 58	CS1 Qty 49	CS2 Qty	CS3 Qty 0	CS4 Qty 6 F	eet
515		Protective Coating	547	541	0	1	5 S	quare Feet
Elemer Numbe	Defeat Time	Defect Descr	ription		cs	CS Qty	Maint Qty	
√ 107	Corrosion	(PAR) at bent 2, painted over section inch average remaining x 4.5 foot y	,		4	5	5	Feet
√ 107	Corrosion	(PAR) at bent 3, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated			4	1	1	Feet
✓ 107	Damage	multiple up to 3 foot long horizonta cracks in end diaphragm between lbent 2 starting at beam 8			3			Feet
✓ 107	Damage	impact damage			2			Feet
√ 107	Distortion	over right westbound lane, impact	scrapes		2	3		Feet
√ 515	Effectiveness (Steel Protective Coatings	, ,	scrapes		4	5	5	Square Feet
√ 515	Effectiveness (Steel Protective Coatings				3	1	1	Square Feet
	General Comments							

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
07	Steel Open Girder/Beam	58	49	5	0	•	Feet
15	Steel Protective Coating	547	536	0	1	10	Square Feet

Structure	Number: <u>110173</u>			Inspection	n Da	ate: 10/25/2023
√ 107	Corrosion	(PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/16 inch average remaining x 16 inch x 2.5 inch); lower web (1/4 inch average remaining x 20 inch x 2 inch); bottom flange (0.50 inch average remaining x 9 inch) with corrosion reinitiated	4	1	1	Feet
√ 107	Corrosion	(PAR) at bent 3, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 1 foot x 8 inch); lower web (1/4 inch average remaining x 32 inch x 2 inch); bottom flange (0.50 inch average remaining x 18 inch)	4	3	3	Feet
V 107	Damage	(PAR) 3 foot long x 6 inch wide x 3 inch high spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 70 percent section remaining in exposed reinforcement.	4			Feet
√ 107	Damage	impact damage	2			Feet
√ 107	Distortion	over right westbound lane, impact scrapes with distortion	2	5		Feet
√ 515	Effectiveness (Steel Protective Coatings)	over right westbound lane, impact scrapes	4	10	10	Square Feet
√ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1	Square Feet
	General Comments					

Span	3	Beam 9					
Plate	Girder						
Eleme Numb 107	per	Element Name teel Open Girder/Beam	Total Qty 58	CS1 Qty 57	CS2 Qty	CS3 Qty 0	CS4 Qty 0 Feet
515	S	teel Protective Coating	547	547	0	0	0 Square Feet
Element Number	Defect Ty	pe Defect Descr	iption		cs	CS Qty	Maint Qty
107 [Damage	impact damage			2		Feet
] 107	Distortion	(2023 no apparent change since pr SUPPLEMENTAL INSPECTION IN 2021: 1 indention 1 inch long x 1/4 foot-7 inch from interior, bent 3	IPACT DAMAGE		2	1	Feet

Spa Plat	n 3 e Girder			Beam 10						
	ment nber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Ope	en Girder/Beam		58	57	1	0	0	Feet
515		Steel Pro	tective Coating		547	547	0	0	0	Square Feet
Elemen Numbe	Dofoct	Туре		Defect Description			cs	CS Qty	Maint Qty	
√ 107	Damage		impact damage				2		-	Feet

along the web .

General Comments

Spar	า 3	Beam 11						
Plate	e Girder							
Elem Num 107	ber	Element Name Open Girder/Beam	Total Qty 58	CS1 Qty 51	CS2 Qty	CS3 Qty 0	CS4 Qty	
515	Steel	Protective Coating	547	546	0	0	1	Square Feet
Element Number	Dafaat Tuna	Defect Desc	cription		CS	CS Qty	Maint Qty	
107	Corrosion	at bent 3, top flange, surface rust/	rust scale (1 foot)		2	1	.,	Feet
107	Damage	repaired impact damage			2			Feet
] 107	Distortion	2023 new repair (beam heat straig coverplate rewelded); previously r SUPPLEMENTAL INSPECTION I 2021 area of previous impact darbottom flange vertical up to 2 inch inch with broken cover plate weld area of impact damage 6 inch long 13 foot-5 inch out from interior. be bottom cover plate being broken leflange 10 inch long x 2 inch deep older 1/2 inch indentions in the sais swept westward up to 1 1/2 inc 2 inch diameter torch cut hole at 6 foot length.	moted as: MPACT DAMAGE mage, distortion of lateral up to 1/2 [10 inch long]. new g x 2 inch high at ent 3 . with the cose from bottom . there are also two ame area . Beam 11 ch. (par) there is a		2	6		Feet
515	Effectiveness (Steel Protective Coatings				4	1		1 Square Feet

Span 3		Expa	nsion Joint at Bent 2					
Standa	rd Joint							
Element Number	-	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourab	le Joint Seal	77	71	0	6	0 Feet	
Element Number	Defect Type	Defe	ct Description		cs	CS Qty	Maint Qty	
✓ 301 Sea	al Adhesion	along the length of the join inch wide x 2.5 foot x 3/4 ir			3	6	Feet	

Spa Asp	n 3 halt Wearing Sur	Wearing face	Surface				
Elen Nun 510	nber	Element Name g Surface	Total Qty 3,910	CS1 Qty 2,910	CS2 Qty	CS3 Qty 1,000	CS4 Qty 0 Square Feet
Elemen Number	Dofoot Typo	Defect De	escription		cs	CS Qty	Maint Qty
√ 510	Crack (Wearing Surface)	throughout asphalt wearing sur- transverse and longitudinal crace 8 foot)			3	1,000	1,000 Square Feet

Structure I	Number: <u>110173</u>			Inspection Date: 10/25/2023
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 5 foot long transverse and longitudinal cracks, scattered, in left shoulder.	1	Square Feet
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x 5 foot long transverse and longitudinal cracks, scattered, in right shoulder.	1	Square Feet

Spa	an 3	Left Bridg	e Rail					
Co	ncrete and M	letal Railing						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	•	Other Bridge Railing	58	45	13	0	0	Feet
Eleme Numbe	Dofoot T	ype Defect Des	scription		cs	CS Qty	Maint Qty	
✓ 333	Cracking	along the length of parapet, verti 1/32 x full height) at random	cal cracks (up to		2	13		Feet
	General Comm	nents						

Spa	an 3	Right Bridg	je Rail					
Co	ncrete and M	letal Railing						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333		Other Bridge Railing	58	49	9	0	0 Feet	
Eleme Numb	Dofoot T	ype Defect Desc	ription		cs	CS Qty	Maint Qty	
✓ 333	Cracking	adjacent to rail post 6, hairline map	o cracking		2	3	Feet	
✓ 333	Cracking	along the length of parapet, vertica 1/32 x full height) at random	al cracks (up to		2	6	Feet	
	General Comm	nents						

Spa	an 3	Near Bea	ring 4					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0 1	Each
515	Steel Pr	rotective Coating	1	0	0	0	1 :	Square Feet
Elemer Numbe	Dofoct Typo	Defect De	scription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	active pack rust and section los and sole plate. 80 percent section			3	1	1	Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	1	Square Feet
	General Comments							

	<u> </u>							_ a.o. <u></u>
Spa	n 3	Far Bearin	g 4					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	active pack rust and section loss and sole plate. 80 percent section	<i>,</i> ,		3	1		1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
-	General Comments							

Spar	n 3	Near Bear	ing 5					
Othe	er Bearing							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
316	Other Be	arings	1	0	0	1	0	Each
515	Steel Pro	tective Coating	1	0	0	0	1	Square Feet
Element Number	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	•	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining		3	1	-	1 Each
316	Loss of Bearing Area	(PAR) loss of bearing area (up to 1/2 inch x 3 inch)			2			1 Each
515	Effectiveness (Steel Protective Coatings)			4	1		1 Square Feet	
(General Comments							

Span 3 Other B	earing		Far Beari	ng 5					
Element Number 316 C		E Other Bearings	Element Name her Bearings		CS1 Qty 0	CS2 Qty		CS4 Qty	
515 Steel Protective Coating			1	1	0	0	0	Square Feet	
Element Number	Defeat Type Defeat Description				cs	CS Qty	Maint Qty		
316 Corr	Corrosion corrosion has been arrested when painted, 75 percent section remaining in masonry and sole plate. west anchor bolt has 25 percent section remaining, no nut present				3	1	·	1 Each	

Spa	an 3		Near Bearing 6					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	C	ther Bearings	1	0	0	1	0	Each
515	S	teel Protective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Dofoot Ty	pe	Defect Description		cs	CS Qty	Maint Qty	
✓ 316	Corrosion active corrosion an plates. 80 percent s		d section loss in sole and mason section remaining.	ny	3	1		1 Each
√ 515	Effectiveness (S Protective Coat		ion loss		4	1		1 Square Feet
	General Comme	ents						

Spar	n 3		Far Bear	ing 6					
Othe	er Bearin	g							
Elem Num			Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other B	earings	1	0	0	1	0	Each
515		Steel P	rotective Coating	1	1	0	0	0	Square Feet
Element Number	Dofo	ct Type	Defect De	escription		cs	CS Qty	Maint Qty	
√ 316	Corrosion		corrosion has been arrested wh percent section remaining in m west anchor bolt nut has 20 pe remaining	asonry and sole plate.		3	1		1 Each
(General Co	mments							

Spa	Span 3			Near Bearing 7						
Oth	er Bearing									
	ment mber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	316 Other Bearings			1	0	0	0	1	Each	
515	515 Steel Protective Coating			1	1	0	0	0	Square Feet	
Elemei Numbe	Dofoct	Туре		Defect Description			cs	CS Qty	Maint Qty	
✓ 316	Connection		(PAR) east weld bet plate, broken	ween sole and bottom	flange		4	1	•	I Each
✓ 316	Corrosion			nd section loss in mas ercent section remaini			3		•	I Each
	General Com	ments								

Span 3		Far Bearing 7						
Other B	earing							
Element Number	Element N	lame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	0	1	0	Each
515	Steel Protective Coating	I	1	0	0	0	1	Square Feet
lement Sumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Number: <u>110173</u>	Inspection	Inspection Date: <u>10/25/2023</u>			
✓ 316	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.	3	1	1 Each	
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss	4	1	1 Square Feet	
	General Comments					

Spa	ın 3	Near Bea	aring 8					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect D	escription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	active pack rust and section loand sole plate. 80 percent section	, ,		3	1	•	1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	•	1 Square Feet
	General Comments							

Spa	Span 3			ng 8					
Othe	er Bearing	ı							
Elen Nun	nent nber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other B	earings	1	0	0	1	0	Each
515		Steel P	rotective Coating	1	1	0	0	0	Square Feet
Elemen Number	Dofoc	Туре	Defect De	scription		CS	CS Qty	Maint Qty	
√ 316	Corrosion		corrosion has been arrested wh percent section remaining in ma west anchor bolt nut has up to 8 remaining.	sonry and sole plate.		3	1		1 Each

Spa	ın 4	Deck						
Rei	nforced Concrete	Deck						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	2,975	1,973	0	1,002	0 S	quare Feet
Elemen Numbe	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
√ 12	Cracking (RC and Other)	throughout underside of deck, tra to 1/16 inch x full bay width) and inch) some with efflorescence at	map cracks (1/32		3	1,000	1,000	Square Feet
√ 12	Delamination/Spall	2 foot long x 6 inch wide x up to delamination/spall in deck unde foot from end bent 2.	•	f	3	2	2	Square Feet
√ 12	Cracking (RC and Other)	(combined with other notes 2023 inch wide full width transverse of deck in bay 2, scattered.			1			Square Feet

Structure I	Number: <u>110173</u>			Inspection Date: 10/25/2023
√ 12	Cracking (RC and Other)	(combined with other notes 2023) up to 1/16 inch wide full width transverse crack in deck underside, bay 6, at the intermediate diaphragm.	1	Square Feet
√ 12	Cracking (RC and Other)	2 - up to 1/16 inch wide full width transverse cracks in underside of deck in bay 1, scattered.	1	Square Feet
√ 12	Cracking (RC and Other)	multiple up to 1/16 inch wide full width transverse cracks in underside of deck in bay 3 scattered, some with efflorescence	1	Square Feet
√ 12	Efflorescence/Rust Staining	(combined with other notes 2023) hairline full width transverse crack with light efflorescence in underside of deck in bay 8, 10 foot from end bent 2.	1	Square Feet

Spai	n 4			Beam 4						
Plate	e Girder									
Num	Element Number 107 Ste		Element Name Steel Open Girder/Beam		Total Qty 43	CS1 Qty 37	CS2 Qty	CS3 Qty	CS4 Qty	
515			otective Coating		405	405	0	0		Square Feet
Element Number	Dofoot	Туре		Defect Descript	ion		cs	CS Qty	Maint Qty	
/ 107	Corrosion		(PAR) at bent 3, pa inch average remai corrosion holes (up flange (0.45 inch av	ning x 5.5 foot x 10 to 1 inch x 1/2 inc) inch) with h); bottom		4	6	•	6 Feet
<u>/</u> 107	Damage		7 foot long x 8 inch and 8 in along botto unsound concrete i between beams 4 a	om face area of de n end diaphragm a	lamination and		3			1 Feet
/ 107	Corrosion		(combined with oth beam end x full flar bottom flange, at be	ige width x 0.24 in	ch remaining in		1			Feet
(General Com	ments								

Spar	Span 4		Beam 5								
Plate	Girder										
Elem Num 107		Steel Op	Element Name en Girder/Beam		Total Qty 43	CS1 Qty 37	CS2 Qty	CS3 Qty 1	CS4 Qty 5		
515		Steel Pro	tective Coating		405	404	0	1	0	Square Feet	
Element Number	Dofoot	Туре		Defect Description			cs	CS Qty	Maint Qty		•
√ 107	Corrosion		inch average remain corrosion holes (6 in	nted over section loss: ning x 6 foot x 1 foot) with the x 1.5 inch); bottom for aining x 15 inch) with c	th lange (0.		4	5		5 Feet	
√ 107	Damage		and bottom faces a	x 8 inch wide x 5 inch al rea of delamination and ohragm at bent 3 betwee	unsound		3	1		1 Feet	

Structure I	Number: <u>110173</u>	Inspection Date: 10/25/2023			
√ 107	Corrosion	(combined with other notes 2023) active corrosion with section loss 8 inch long from beam end x full flange width x 3/8 inch section remaining in bottom flange, at bent 3	1		Feet
√ 515	Effectiveness (Steel Protective Coatings)	surface rust	3	1	1 Square Feet

Spa	an 4	Beam 6						
Pla	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	en Girder/Beam	43	39	0	0	4	Feet
515	Steel Pro	otective Coating	405	404	0	1	0	Square Feet
Elemei Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
√ 107	Corrosion	(PAR) at bent 3, painted over secti inch average remaining x 32 inch x corrosion reinitiated			4	4		4 Feet
√ 107	Damage	32 inch long x 10 inch wide x 5 inc bottom faces area of delamination concrete in end diaphragm at bent 6 and 7.	and unsound		3			1 Feet
√ 515	Effectiveness (Steel Protective Coatings)	surface rust			3	1		1 Square Feet
	General Comments							

Spa	Span 4 Beam 7							
Pla	te Girder							
Element Number 107		Element Name Steel Open Girder/Beam	Total Qty 43	CS1 Qty 35	CS2 Qty	CS3 Qty	CS4 Qty	-eet
515		Steel Protective Coating	405	397	0	8	-	Square Feet
Eleme Numb	Dofoot T	ype Defect Desc	ription		cs	CS Qty	Maint Qty	
V 107	Corrosion	(PAR) at bent 3, painted over sectinch average remaining x 8 foot x corrosion holes (up to 1/4 inch dia flange (0.45 inch average remaining corrosion reinitiated	12 inch) with `meter); bottom		4	8	8	Feet
√ 107	Corrosion	(combined with other notes 2023) with section loss 28 inch long x ful 34 inch remaining thickness in bot at beam end.	ll flange width x 0.		1			Feet
✓ 107	Damage	(combined with beam 8 notes 202 3 inch deep spall with exposed rei percent remaining on north botton diaphragm at bent 3	inforcement, 75		1			Feet
√ 515	Effectiveness (atings)			3	8	8	Square Feet
	General Comm	nents						

Spa	an 4		Beam 8						
Pla	te Girder								
Element Number		Element Name	Tot Q	al ty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Open Girder/Beam	•	43	39	0	0	4	Feet
515		Steel Protective Coating	40	05	401	0	4	0	Square Feet
Elemei Numbe	Dofoot T	•				cs	CS Qty	Maint Qty	
√ 107	Corrosion	(PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) with corrosion reinitiated				4	4		4 Feet
✓ 107	Damage	with exposed reinfo	1.5 foot wide x 3 inch deep streement in end diaphragm and 8 at bent 3. 60 percent seed reinforcement.			4			Feet
√ 515	Effectiveness Protective Coa					3	4		4 Square Feet
	General Comm	nents							

Spa	an 4	Expansion	n Joint at Bent 3					
Sta	ndard Joint							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourabl	e Joint Seal	77	65	0	12	0 Feet	
Eleme Numbe	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
✓ 301	Seal Damage	along the length of the joint, adhesion loss (up to 3/4 inch wide x 7 foot x 1.5 inch deep) at random			3	12	12 Fee	et
	General Comments							

Spa	n 4	Wearing Surfa	ce					
Asp	halt Wearing Sur	face						
Nun	nent nber	er Element Name		CS1 Qty 1,890	CS2 Qty	CS3 Qty	CS4 Qty	muses Fast
510 Elemen Numbe	t Defeat Type	Defect Description			0 cs	1,000	Maint Qty	quare Feet
√ 510	Crack (Wearing Surface)	throughout asphalt wearing surface, patransverse and longitudinal cracks (up 40 foot)			3	1,000	1,000	Square Feet
✓ 510	Crack (Wearing Surface)	(combined with other notes 2023) at be at end bent 2, transverse cracks [up to 3/4 inch wide] with vegetation and deb accumulation	2 foot x up to		1			Square Feet
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) multinch wide x 5 foot long transverse and cracks, scattered, in left shoulder.			1			Square Feet
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) multinch wide x 6 foot long transverse and cracks, scattered, in right shoulder.			1			Square Feet

Structure N	Number: <u>110173</u>		Inspection Date: <u>10/25/2023</u>	
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch wide x up to 5 foot long transverse and longitudinal cracks, scattered, in southbound left lane.	1	Square Feet
√ 510	Crack (Wearing Surface)	(combined with other notes 2023) multiple up to 1/8 inch x 2 foot long transverse and longitudinal cracks, scattered, in northbound left lane.	1	Square Feet

Canaral	Comments
(-eneral	Comments

Spa	an 4	Left Bridg	e Rail						
Coi	ncrete and Metal F	Railing							
	ement Imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
333	Other E	Bridge Railing	43	33	8	2	0 F	eet	
Eleme Numbe	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty		
✓ 333	Delamination/Spall	at end bent 2, (2) spalls (up to 5 inch deep) exposed reinforcement section loss.			3	2	2	Feet	
✓ 333	Cracking	along the length of parapet, vertically 1/32 x full height) at random	cal cracks (up to		2	8		Feet	
✓ 333	Damage	(2023 moved to general notes) g end terminal has been fixed since wood posts and spacer blocks ha	e last inspection.		1			Feet	
	General Comments								

Total	CS1	000			
Total	CS1	000			
Qty	Qty	CS2 Qty	CS3 Qty	CS4 Qty	
43	37	6	0	0	Feet
		cs	CS Qty	Maint Qty	
(up to		2	6		Feet
	•	43 37	43 37 6 CS	43 37 6 0 CS CS Qty	43 37 6 0 0 CS CS Qty Maint Qty

General Cor	nments
-------------	--------

Spa	n 4	Near Bearing 4							
Oth	er Bearing								
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
316	Other B	earings	1	0	0	1	0	Each	
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet	
Elemen Numbe	Dofoct Type	Defect Des	cription		cs	CS Qty	Maint Qty		
✓ 316	Corrosion	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.			3	1		I Each	
✓ 515	Effectiveness (Steel Protective Coatings)				4	1		I Square Feet	
	General Comments								

							•	
Spa	an 4	Near Bea	ring 5					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other I	Bearings	1	0	0	1	0	Each
515	Steel F	Protective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Dofoct Typo	Defect De	scription		cs	CS Qty	Maint Qty	
✓ 316	Corrosion	•	active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.		3	1	•	1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1	•	1 Square Feet
	General Comments							

Spar	า 4	Near Beari	ng 6					
Othe	er Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pro	otective Coating	1	0	0	0	1	Square Feet
Element Number	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	active pack rust and section loss and sole plate. 80 percent section	, ,		3	1		1 Each
	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet
G	Seneral Comments							

Spa	n 4	Near Bearin	ıg 7					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desci	ription		cs	CS Qty	Maint Qty	
√ 316	Corrosion	active corrosion and section loss ir and sole plate. 80 percent section anchor bolt nuts have up to 40 per remaining	remaining. both		3	1		1 Each
√ 515	Effectiveness (Steel Protective Coatings)	corrosion with section loss			4	1		1 Square Feet

Span 4		Near Beari	ing 8					
Other B	earing							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	1	0	0	0	Square Feet
Element Number	Defect Type	Defect Des	cription		cs	CS Qty	Maint Qty	
✓ 316 Corr	rosion	corrosion has been arrested when percent section remaining in mas plate. both anchor bolt nuts have section remaining.	onry plate and sole		3	1		1 Each

End	Bent 1	Abutment						
Reir	nforced Concrete	Abutment						
Elen Nun 215	nber	Element Name ced Concrete Abutment	Total Qty 74	CS1 Qty 63	CS2 Qty	CS3 Qty 11	CS4 Qty 0 F	eet
Elemen	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
215	Delamination/Spall	along the length of the abutment, bottom flanges, spall/delamination inch x 4 inch deep) with cracks (u	ns (up to 9 inch x 4		3	11	11	Feet
215	Cracking (RC and Other)	(combined with other notes 2023) x 9 inch long crack in backwall at			1			Feet
215	Cracking (RC and Other)	(combined with other notes 2023) x 9 inch long crack in backwall at			1			Feet
215	Cracking (RC and Other)	(combined with other notes 2023) x 9 inch long crack in backwall at			1			Feet
215	Delamination/Spall	(combined with other notes 2023) inch high x up to 4 inch deep spal beam 7, bay 6.	•		1			Feet

End	l Bent 1	Cap 1						
Rei	nforced Concrete	Pier Cap						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	82	59	22	1	0 Feet	
Elemer Numbe	Dofoct Typo	Defect Descrip	otion		cs	CS Qty	Maint Qty	
√ 234	Delamination/Spall	11 inch high x 7 inch wide x up to 1 i with exposed rusted rebar in north fa beam 4.			3	1	1 Feet	
√ 234	Cracking (RC and Other)	scattered along length of cap, multip [15 inch long x up to 1/32 inch]	le vertical cracks		2	20	Feet	
✓ 234	Cracking (RC and Other)	west end, map cracks (hairline x 1.5	foot x full height)		2	2	Feet	
	General Comments							

Element Number	ber Reinford	Element Name ced Concrete Pier Cap	Total Qty 76	CS1 Qty 34	CS2 Qty	CS3 Qty 42	CS4 Qty 0 Fe	eet
Number 234 Element Number 234 (Reinford Defect Type Cracking (RC and	Defect Descript 15 foot long x 12 inch delamination w	Qty 76	Qty	Qty	Qty	Qty	eet
Number 234	Defect Type Cracking (RC and	15 foot long x 12 inch delamination w	tion					
			Defect Description		cs	CS Qty	Maint Qty	
234		cap.			3	15	15	Feet
	Cracking (RC and Other)	5 foot long x 21 inch high area of dela concrete with cracks up to 1/16 inch t 7 and 8 in the north face of cap near	between beams		3	5	5	Feet
	Cracking (RC and Other)	5 foot x full width delamination with crinch in the underside of the cap between days 1,16 inch wide vertical crack ir of the cap between columns 4 and 5.	een columns 4 n the north face		3	5	5	Feet
	Cracking (RC and Other)	north face, below beam 5, delaminati 1 foot x 1/2 inch]	on/spall [4 foot x		3	4	4	Feet
√ 234 [Delamination/Spall	1 foot long x full width of cap area of concrete with cracks up to 1/8 inch exinto north face between columns 5 ar	xtends 1 foot		3	1	1	Feet
234 [Delamination/Spall	35 inch long x 16 inch high x up to 1.5 of delamination and spall in north fac with exposed reinforcement. no meas loss.	ce at beam 4		3	3	3	Feet
√ 234 E	Exposed Rebar	(PAR) South and top face between be spall/delamination [4.5 foot x up to 3.3 inch deep] with 4 vertical and 1 horizor rusted reinforcing with up to 1/16 inch no loss of bearing area	5 foot x up to 4 ontal exposed		3	9	9	Feet
	Cracking (RC and Other)	north face, under beam 6, horizontal 1/32 inch]	crack [19 inch x		2			Feet
T	Cracking (RC and Other)	(combined with other notes 2023) up crack on underside of cap at the cons			1			Feet

Ben	t 1	Pile 3						
Reir	nforced Concrete	Column						
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 E	ach
Elemen Numbe	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
✓ 205	Delamination/Spall	(PAR) 34 inch high x 10 inch wid spall with exposed rusted reinfo			3	1	1	Each

Ber	nt 1	Pile 4						
Rei	nforced Concrete	Column						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ced Concrete Column	1	0	0	1	0	Each
Elemer Numbe	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
✓ 205	Cracking (RC and Other)	North face at top of the column, or x 10 inch wide] with cracks [up to			3	1	1	Each
	General Comments							

	Bent 2 forced Concrete	Abutment Abutment							
Elem Num 215	nber	Element Name ced Concrete Abutment	Total Qty 74	CS1 Qty 68	CS2 Qty	CS3 Qty 6	CS4 Qty	Feet	
Element Number	Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty		
√ 215	Cracking (RC and Other)	(2023 unable to verify due to hom up to 1/8 inch wide x 9 inch long of beam 3, bay 2. similar condition a	crack in backwall at		3	6	(6 Feet	

General Comments

General Comments

cap

	l Bent 2 nforced Concrete	Cap 1 Pier Cap						
	ment nber Reinfor	Element Name ced Concrete Pier Cap	Total Qty 82	CS1 Qty 42	CS2 Qty 40	CS3 Qty 0	CS4 Qty 0 Feet	
Elemen Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
✓ 234	Cracking (RC and Other)	(2023 unable to verify due to home multiple vertical cracks [up to 15 in inch wide] scattered along cap			2	25	Feet	
		mon wacj souttered along cap						

Bent Rein	t 2 forced Concrete	Cap 1 Pier Cap						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfo	rced Concrete Pier Cap	76	32	8	28	8	Feet
Element Number	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
√ 234	Exposed Rebar	(PAR) south face, in bay 6, spall x 4 foot x 1.5 inch deep) with exp (approximately 75 percent remains to 1/16 inch)	oosed rusted rebar		4	8		B Feet
√ 234	Cracking (RC and Other)	10 foot x 1/16 inch horizontal cra	ick in north face of		3	10	10) Feet

Structure	Number: <u>110173</u>			Inspection D	ate: 10/25/2023
√ 234	Delamination/Spall	4 foot long x 18 inch x 1 inch high spall/delamination concrete in south face near the top between beams 7 and 8.	3	4 4	Feet
✓ 234	Delamination/Spall	4 foot x up to 20 inch x 1 inch deep high area of delaminated concrete in south face between beams 4 and 5.	3	4 4	Feet
√ 234	Delamination/Spall	under beam 5, spall [14 inch x 4 inch x 1 inch deep] with coarse aggregate exposed, undermining bearing 1/2 inch	3	1 1	Feet
✓ 234	Exposed Rebar	(PAR) (3) up to 1.5 foot x 1 foot wide x 1/2 inch deep spall with exposed rusted reinforcement, 80 percent remaining on underside of cap between columns 5 and 6	3	2 2	Feet
√ 234	Exposed Rebar	(PAR) south face, below beam 4, spall/delamination (18 inch x 38 inch x 1.5 inch deep) with exposed and debonded rebar	3	2 2	Feet
✓ 234	Exposed Rebar	[PAR] bottom face of cap between columns 4 and 5, spall/delamination [5 foot long x full width x up to 3 inch deep] with seven exposed rusted reinforcing with 80 percent remaining	3	5 5	Feet
√ 234	Cracking (RC and Other)	4 foot long x 1/32 inch wide horizontal crack on north face of cap under beam 7	2	4	Feet
√ 234	Delamination/Spall	between columns 3 and 4, 4 foot long x full width delamination in the bottom face extending into vertical faces of concrete	2	4 4	Feet
√ 234	Cracking (RC and Other)	(combined with other notes 2023) 4 foot long longitudinal hairline cracks in south face near top of cap between beams 6 and 7.	1		Feet
✓ 234	Exposed Rebar	(combined with other notes 2023) 1 foot long x 2 foot wide area of delaminated concrete with exposed reinforcement. no measurable section loss in the exposed reinforcement.	1		Feet
	General Comments				

Bent	2	Pile 3						
Rein	forced Concrete	Column						
Elem Num 205	ber	Element Name red Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 0	CS4 Qty 1 Each	
Element Number	Defect Type	Defect Descri	ption		cs	CS Qty	Maint Qty	
√ 205	Exposed Rebar	(PAR) Southeast corner 5 foot from delamination/spall [28 inch wide x 9 inch deep] with [1] primary exposed [75 percent remaining]	.5 foot x up to 4		4	1	1 Each	
✓ 205	Delamination/Spall	southwest corner, below cap, spall/inch x 10 inch x 1 inch deep)	delamination (36		3		1 Each	
G	Seneral Comments							

Ber	nt 2	Pile 4						
Rei	nforced Concrete	Column						
	ment mber Reinfor	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 E	ach
Elemer Numbe	Dofoot Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
√ 205	Cracking (RC and Other)	below cap, northeast and southeast delaminations (up to 3.5 foot x 10 in (1/4 inch)	, , ,		3		1	Each
✓ 205	Delamination/Spall	(PAR) north face, at ground, spall/dwidth x 7.5 foot high x 3 inch deep) and west faces (up to 7 inch) with eand debonded rebars	extends into east		3	1	1	Each
	General Comments							

Bei	nt 2	Pile 5						
Rei	nforced Concre	ete Column						
	ment mber Reir	Element Name forced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty	CS3 Qty 0	CS4 Qty 1 E	ach
Eleme Numbe	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
√ 205	Exposed Rebar	(PAR) Southwest corner below c delamination/spall [7 foot high x to 3 inch deep] with two exposed 70 percent section remaining in t reinforcement.	up to full width x up rusted reinforcing,		4	1	1	Each
√ 205	Delamination/Spal	I 3 foot from ground, west and sou spalls/delaminations (up to 1 foot deep) with exposed rusted rebar	t x 19 inch x 1.5 inch		3		1	Each
	General Comment	s						

Ber	nt 2	Pile 7						
Rei	nforced Concrete	Column						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ced Concrete Column	1	0	1	0	0 Each	
Elemer Numbe	Dofoot Tymo	Defect Des	cription		cs	CS Qty	Maint Qty	
✓ 205	Cracking (RC and Other)	north and west faces, map crack full width)	s (hairline x 1 foot x		2	1	Each	
	General Comments							

Bent 3		Cap 1						
Reinford	ced Concrete Pier Cap							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Ca	р	76	46	6	24	0 Feet	
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

Structure	Number: <u>110173</u>			Inspect	ion D	ate: 10/25/2023
✓ 234	Cracking (RC and Other)	4 foot long x 8 inch high area of up to 1/16 inch wide cracks and delamination on north face under bay 5	3	4	4	Feet
√ 234	Cracking (RC and Other)	North face under bay 7, delamination 6 foot long x up to 1 foot x 4 inch x 1 inch deep in and has up to 1/8 inch wide cracks	3	6	6	Feet
✓ 234	Cracking (RC and Other)	south face, in bays 4 and 5, multiple spalls/delaminations (up to 5 foot x 2 foot x 1.5 inch deep) with exposed rusted rebar	3	10	10	Feet
✓ 234	Delamination/Spall	10 inch x 5 inch x 1 inch deep spall with exposed reinforcement in south face between beams 6 and 7. 90 pecent section remaining in exposed reinforcement.	3	1	1	Feet
✓ 234	Delamination/Spall	12 inch high x 9 inch wide x 1.5 inch deep with exposed reinforcement under beam 7, south face. 90 percent section remaining in exposed reinforcement.	3	1	1	Feet
√ 234	Delamination/Spall	12 inch x 4 inch x 1/2 inch deep spall with exposed reinforcement on east face of top radius at pile 5	3	1	1	Feet
✓ 234	Delamination/Spall	North face under beam 4, spall [1 foot x 6 inch x 1/2 inch deep] no undermining	3	1	1	Feet
✓ 234	Delamination/Spall	5 foot x up to full height area of cracked delamination on south face of cap below beam 8	2	6	6	Feet
√ 234	Delamination/Spall	(combined with other notes 2023) 3 foot long x 1 foot high area of delaminated concrete in south face between beams 5 and 6.	1			Feet
✓ 234	Delamination/Spall	(combined with other notes 2023) bottom of South face below bay 5, spall [14 inch x 10 inch x up to 1 inch deep] with exposed rusted reinforcing 90 percent remaining	1			Feet

Bei	nt 3	Pile 3						
Rei	inforced Concrete	Column						
	ement mber Reinford	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 0	CS4 Qty 1 Each	
Eleme Numbe	Dofoot Typo	Defect Descript	ion		cs	CS Qty	Maint Qty	
√ 205	Exposed Rebar	(PAR) Southeast corner above barrier spall/delamination [10 foot high x up to 4 inch deep] with primary debonde rusted reinforcing 75 percent remaining	ination [10 foot high x up to full width x up eep] with primary debonded exposed orcing 75 percent remaining 2 inch high x 6 inch wide x 1 inch deep			1	1 Each	
✓ 205	Delamination/Spall	east face 12 inch high x 6 inch wide x spall with exposed reinforcement	1 inch deep		3		1 Each	
√ 205	Delamination/Spall	3 foot high x 10 inch wide area of dela unsound concrete in north face. up to 19 inch wide area of delamination and concrete in east face.	43 inch high x		2		1 Each	
✓ 205	Delamination/Spall	4 foot high x 12 inch wide area of dela unsound concrete in north face. simila west face.			2		1 Each	
	General Comments							

Ber	nt 3	Pile 4						
Rei	nforced Concrete	Column						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	1	0	0 E	Each
Elemei Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
✓ 205	Delamination/Spall	area of delamination on west face. Inch wide area of delamination in so	nch wide x height varying from 18 inch to 45 inch a of delamination on west face. 3 foot high x 12 n wide area of delamination in south face. 3 foot n x 12 inch wide area of delamination in north				3	Each
√ 205	Delamination/Spall	3 foot high x 10 inch wide area of dunsound concrete at southeast corr			2		1	Each
✓ 205	Delamination/Spall	3 foot high x 12 inch wide area of dunsound concrete at northeast corn			2	1	1	Each
	General Comments				•		•	

Ber	nt 3	Pile 5						
Rei	nforced Concrete	Column						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 E	Each
Elemer Numbe	Dofoot Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
√ 205	Delamination/Spall	4 foot high x 16 inch wide area of de and unsound concrete at northeast			3		1	Each
✓ 205	Exposed Rebar	(PAR) 6.5 foot high x 20 inch wide x spall and delaminated concrete with primary exposed reinforcement on s of pile. 80 percent section remaining reinforcement.	one debonded south east corner		3	1	1	Each
✓ 205	Exposed Rebar	(combined with other notes 2023) uncorbel, 12 inch long x 3 inch wide x spall with exposed reinforcement. Some remaining in exposed reinforcement	1/2 inch deep 0 percent section		1			Each
	General Comments							

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	3430
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 10	Plate Girder	Steel Open Girder/Beam	49
Span 1	Beam 11	Plate Girder	Steel Open Girder/Beam	49
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	49
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	49
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	3332
Span 1	Near Bearing 1	Other Bearing	Other Bearings	1
Span 1	Far Bearing 1	Other Bearing	Other Bearings	1
Span 1	Near Bearing 2	Other Bearing	Other Bearings	1
Span 1	Far Bearing 2	Other Bearing	Other Bearings	1
Span 1	Far Bearing 3	Other Bearing	Other Bearings	1
Span 1	Near Bearing 3	Other Bearing	Other Bearings	1
Span 1	Near Bearing 4	Other Bearing	Other Bearings	1
Span 1	Far Bearing 4	Other Bearing	Other Bearings	1
Span 1	Far Bearing 5	Other Bearing	Other Bearings	1
Span 1	Near Bearing 5	Other Bearing	Other Bearings	1
Span 1	Near Bearing 6	Other Bearing	Other Bearings	1
Span 1	Far Bearing 6	Other Bearing	Other Bearings	1
Span 1	Far Bearing 7	Other Bearing	Other Bearings	1
Span 1	Near Bearing 7	Other Bearing	Other Bearings	1
Span 1	Near Bearing 8	Other Bearing	Other Bearings	1
Span 1	Far Bearing 8	Other Bearing	Other Bearings	1
Span 1	Far Bearing 9	Other Bearing	Other Bearings	1
Span 1	Near Bearing 9	Other Bearing	Other Bearings	1
Span 1	Far Bearing 10	Other Bearing	Other Bearings	1
Span 1	Near Bearing 10	Other Bearing	Other Bearings	1
Span 1	Near Bearing 11	Other Bearing	Other Bearings	1
Span 1	Far Bearing 11	Other Bearing	Other Bearings	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4025
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 5	Plate Girder	<u>'</u>	58
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 7	Plate Girder	Steel Open Girder/Beam	58

Location	Name	Component	Element Name	Amount
Span 2	Beam 8	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 9	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 10	Plate Girder	Steel Open Girder/Beam	58
Span 2	Beam 11	Plate Girder	Steel Open Girder/Beam	58
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	58
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	58
Span 2	Expansion Joint at Bent 1	Standard Joint	Pourable Joint Seal	77
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	3910
Span 2	Near Bearing 1	Other Bearing	Other Bearings	1
Span 2	Far Bearing 1	Other Bearing	Other Bearings	1
Span 2	Far Bearing 2	Other Bearing	Other Bearings	1
Span 2	Near Bearing 2	Other Bearing	Other Bearings	1
Span 2	Near Bearing 3	Other Bearing	Other Bearings	1
Span 2	Far Bearing 3	Other Bearing	Other Bearings	1
Span 2	Far Bearing 4	Other Bearing	Other Bearings	1
Span 2	Near Bearing 4	Other Bearing	Other Bearings	1
Span 2	Near Bearing 5	Other Bearing	Other Bearings	1
Span 2	Far Bearing 5	Other Bearing	Other Bearings	1
Span 2	Far Bearing 6	Other Bearing	Other Bearings	1
Span 2	Near Bearing 6	Other Bearing	Other Bearings	1
Span 2	Near Bearing 7	Other Bearing	Other Bearings	1
Span 2	Far Bearing 7	Other Bearing	Other Bearings	1
Span 2	Far Bearing 8	Other Bearing	Other Bearings	1
Span 2	Near Bearing 8	Other Bearing	Other Bearings	1
Span 2	Near Bearing 9	Other Bearing	Other Bearings	1
Span 2	Far Bearing 9	Other Bearing	Other Bearings	1
Span 2	Far Bearing 10	Other Bearing	Other Bearings	1
Span 2	Near Bearing 10	Other Bearing	Other Bearings	1
Span 2	Near Bearing 11	Other Bearing	Other Bearings	1
Span 2	Far Bearing 11	Other Bearing	Other Bearings	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	4025
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 6	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 7	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 8	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 9	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 10	Plate Girder	Steel Open Girder/Beam	58
Span 3	Beam 11	Plate Girder	Steel Open Girder/Beam	58
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	58
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	58
Span 3	Expansion Joint at Bent 2	Standard Joint	Pourable Joint Seal	77

Location	Name	Component	Element Name	Amount
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	3910
Span 3	Far Bearing 1	Other Bearing	Other Bearings	1
Span 3	Near Bearing 1	Other Bearing	Other Bearings	1
Span 3	Far Bearing 2	Other Bearing	Other Bearings	1
Span 3	Near Bearing 2	Other Bearing	Other Bearings	1
Span 3	Near Bearing 3	Other Bearing	Other Bearings	1
Span 3	Far Bearing 3	Other Bearing	Other Bearings	1
Span 3	Far Bearing 4	Other Bearing	Other Bearings	1
Span 3	Near Bearing 4	Other Bearing	Other Bearings	1
Span 3	Near Bearing 5	Other Bearing	Other Bearings	1
Span 3	Far Bearing 5	Other Bearing	Other Bearings	1
Span 3	Far Bearing 6	Other Bearing	Other Bearings	1
Span 3	Near Bearing 6	Other Bearing	Other Bearings	1
Span 3	Near Bearing 7	Other Bearing	Other Bearings	1
Span 3	Far Bearing 7	Other Bearing	Other Bearings	1
Span 3	Far Bearing 8	Other Bearing	Other Bearings	1
Span 3	Near Bearing 8	Other Bearing	Other Bearings	1
Span 3	Near Bearing 9	Other Bearing	Other Bearings	1
Span 3	Far Bearing 9	Other Bearing	Other Bearings	1
Span 3	Near Bearing 10	Other Bearing	Other Bearings	1
Span 3	Far Bearing 10	Other Bearing	Other Bearings	1
Span 3	Far Bearing 11	Other Bearing	Other Bearings	1
Span 3	Near Bearing 11	Other Bearing	Other Bearings	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2975
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 5	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 6	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 7	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 8	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 9	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 10	Plate Girder	Steel Open Girder/Beam	43
Span 4	Beam 11	Plate Girder	Steel Open Girder/Beam	43
Span 4	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	43
Span 4	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	43
Span 4	Expansion Joint at Bent 3		Pourable Joint Seal	77
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2890
Span 4	Near Bearing 1	Other Bearing	Other Bearings	1
Span 4	Far Bearing 1	Other Bearing	Other Bearings	1
Span 4	Far Bearing 2	Other Bearing	Other Bearings	1
Span 4	Near Bearing 2	Other Bearing	Other Bearings	1
Span 4	Near Bearing 3	Other Bearing	Other Bearings	1
Span 4	Far Bearing 3	Other Bearing	Other Bearings	1

Location	Name	Component	Element Name	Amount 1	
Span 4	Far Bearing 4	Other Bearing	Other Bearings		
Span 4	Near Bearing 4	Other Bearing	Other Bearings	1	
Span 4	Near Bearing 5	Other Bearing	Other Bearings	1	
Span 4	Far Bearing 5	Other Bearing	Other Bearings	1	
Span 4	Far Bearing 6	Other Bearing	Other Bearings	1	
Span 4	Near Bearing 6	Other Bearing	Other Bearings	1	
Span 4	Near Bearing 7	Other Bearing	Other Bearings	1	
Span 4	Far Bearing 7	Other Bearing	Other Bearings	1	
Span 4	Far Bearing 8	Other Bearing	Other Bearings	1	
Span 4	Near Bearing 8	Other Bearing	Other Bearings	1	
Span 4	Near Bearin 9	Other Bearing	Other Bearings	1	
Span 4	Far Bearing 9	Other Bearing	Other Bearings	1	
Span 4	Far Bearing 10	Other Bearing	Other Bearings	1	
Span 4	Near Bearing 10	Other Bearing	Other Bearings	1	
Span 4	Near Bearing 11	Other Bearing	Other Bearings	1	
Span 4	Far Bearing 11	Other Bearing	Other Bearings	1	
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	76	
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 7	Reinforced Concrete Column	Reinforced Concrete Column	1	
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	82	
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	74	
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	76	
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 7	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	76	
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 3	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 3	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 3	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 3	Pile 7	Reinforced Concrete Column	Reinforced Concrete Column	1	

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 110173 Inspection Date: 10/25/2023

National Bridge Inventory Items

Item	Grade Scale	Grade	
Item 58: Deck	0 - 9 , N	5	Note:
Item 59: Superstructure	0 - 9 , N	4	Items 58,59,60,62 reflect this
Item 60: Substructure	0 - 9 , N	4	inspection only.
Item 61: Channel and Channel Protection	0 - 9 , N	N	For overall NBI coding grade, see cover sheet.
Item 62: Culvert	0 - 9 , N	N	
Item 71: Waterway Adequacy	0 - 9 , N	N	
Item 72: Approach Roadway Alignment	0 - 9 , N	8	

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

ltem	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	Р	14455	3376
Drainage System	G, F, P, or C	Р	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code		I		

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Υ
Inspection Time	Hours	16
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	Υ
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N
Portion of Structure in > 3' of water	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 110173 Inspection Date: 10/25/2023

Item	Superstructure - Item 59	Grade	4	Maint Code	Qty.	0		
Details	superstructure rated 4 due to advanced corrosion with see	ction los	s with some	corrosion holes at bear	n ends	in all spans		
Item	Substructure - Item 60	Grade	4	Maint Code	Qty.	0		
Details	substructure rated 4 due to delaminations and spalls with exposed rebar (rebar has up to 30 percent section loss)							
ltem	Deck Debris	Grade	Р	Maint Code 3376	Qty.	14455		
Details	along both curblines, debris accumulation (1 foot wide x full length); partially obstructing deck drainage							
Item	Drainage System	Grade	Р	Maint Code 3332	Qty.	0		
Details	see deck debris							
Item	General Comments and Misc Items	Grade		Maint Code	Qty.	0		

Details (PAR) southeast guardrail, 3 foot from end bent 1, impact damage (9 foot)

(PAR) southeast guardrail attachment, improper lap

(PAR) northwest guardrail attachment, improper lap

(PAR) northwest guardrail, 55 foot from end bent 2, impact damage (12.5 foot)

(PAR) along end bent 1 slope protection, homeless debris (full length) inhibiting inspection access

(PAR) along end bent 2 slope protection, homeless debris with inhabitants (full length) inhibiting inspection access

guardrail at northwest end terminal has been fixed since last inspection. wood posts and spacer blocks have been replaced



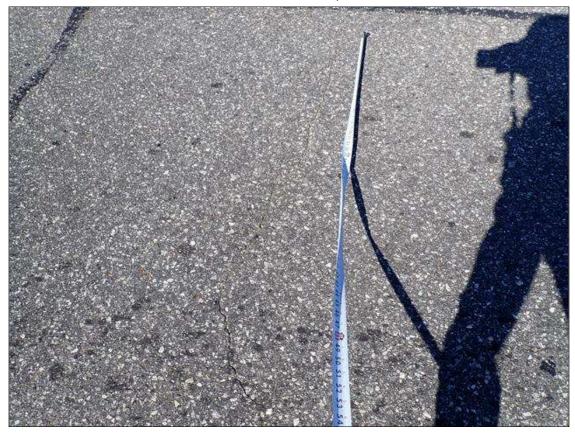
(PAR) southeast guardrail, 3 foot from end bent 1, impact damage (9 foot)



(PAR) southeast guardrail attachment, improper lap



Span 1 Wearing Surface: throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/16 inch x 8 foot)



Span 1 Wearing Surface: throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/16 inch x 8 foot)



Span 1 Wearing Surface: left shoulder of asphalt over end bent 1, pothole/broken asphalt [6 foot x 8 inch x up to 1 inch deep]



Span 1 Wearing Surface: 7 foot long x 16 foot wide x 1 inch deep failed/depressed patch in center of southbound lane near end bent 1



Span 1 Left Bridge Rail: (PAR) impact damage to rail bracket of fourth post



Span 2 Expansion Joint at Bent 1: southbound turn lane, missing seal material (2 foot x 9 inch x full depth)



Span 1 Left Bridge Rail: along the length of parapet, vertical cracks (up to 1/32 x full height) at random



along both curblines, debris accumulation (1 foot wide x full length); partially obstructing deck drainage



Span 2 Left Bridge Rail: (PAR) impact damage to left bridge rail at 3rd vertical post from bent 1. base plate is broken off along the weld and spalls under the base plate with two of four anchor bolts exposed. impact damage is above eastbound I-40 right travel lane. rail and post are intact



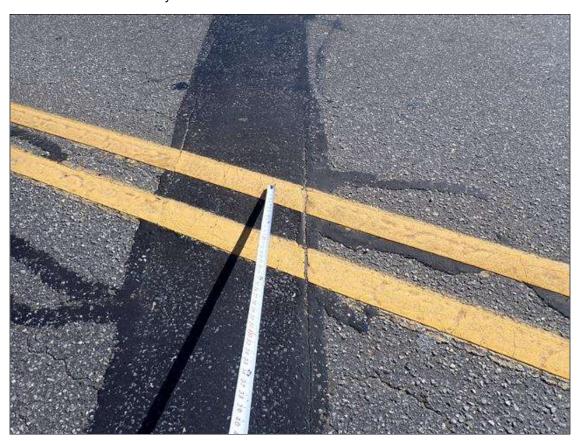
Span 2 Left Bridge Rail: (PAR) impact damage to left bridge rail at 3rd vertical post from bent 1. base plate is broken off along the weld and spalls under the base plate with two of four anchor bolts exposed. impact damage is above eastbound I-40 right travel lane. rail and post are intact



Span 2 Wearing Surface: throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/16 inch x 8 foot)



Span 2 Wearing Surface: at right Southbound lane adjacent to joint over bent 2, unsound patch/pothole [32 inch x 10 inch x full depth]



Span 3 Expansion Joint at Bent 2: along the length of the joint, adhesion loss (up to 1/8 inch wide x 2.5 foot x 3/4 inch deep) at random



Span 3 Expansion Joint at Bent 2: along the length of the joint, adhesion loss (up to 1/8 inch wide x 2.5 foot x 3/4 inch deep) at random



Span 3 Left Bridge Rail: along the length of parapet, vertical cracks (up to 1/32 x full height) at random



Span 3 Right Bridge Rail: adjacent to rail post 6, hairline map cracking



Span 4 Expansion Joint at Bent 3: along the length of the joint, adhesion loss (up to 3/4 inch wide x 7 foot x 1.5 inch deep) at random



Span 4 Expansion Joint at Bent 3: along the length of the joint, adhesion loss (up to 3/4 inch wide x 7 foot x 1.5 inch deep) at random



Span 4 Wearing Surface: throughout asphalt wearing surface, partially sealed transverse and longitudinal cracks (up to 1/8 inch x 40 foot)



Span 4 Left Bridge Rail: at end bent 2, (2) spalls (up to 5 inch x 4 inch x 1.5 inch deep) exposed reinforcement. no measureable section loss.



(PAR) northwest guardrail attachment, improper lap



(PAR) northwest guardrail, 55 foot from end bent 2, impact damage (12.5 foot)



(PAR) along end bent 2 slope protection, homeless debris with inhabitants (full length) inhibiting inspection access



End Bent 1 Cap 1: scattered along length of cap, multiple vertical cracks [15 inch long x up to 1/32 inch]



End Bent 1 Cap 1: 11 inch high x 7 inch wide x up to 1 inch deep spall with exposed rusted rebar in north face of cap at beam 4.



End Bent 1 Cap 1: west end, map cracks (hairline x 1.5 foot x full height)



Span 1 Near Bearing 2: surface rust/rust scale



End Bent 1 Abutment: along the length of the abutment, adjacent to beam bottom flanges, spall/delaminations (up to 9 inch x 4 inch x 4 inch deep) with cracks (up to 1/8 inch)



End Bent 1 Abutment: along the length of the abutment, adjacent to beam bottom flanges, spall/delaminations (up to 9 inch x 4 inch x 4 inch deep) with cracks (up to 1/8 inch)



Span 1 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random



Span 1 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random



Span 1 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random



Span 1 Deck: (PAR) 6 inch diameter x 1/2 inch deep spall with exposed reinforcement in bay 4 near end bent 1



Span 1 Deck: (2) up to 2 foot wide x 12 inch long areas of delamination in deck underside, bay 3, near midspan.



Span 1 Deck: (2) up to 2 foot wide x 12 inch long areas of delamination in deck underside, bay 3, near midspan.



Span 1 Deck: (PAR) 6 inch diameter x 1 inch deep spall with exposed reinforcement. no measurable section loss. 18 inch long x 12 inch wide area of delamination along beam 8 top flange, in bay 7, at midspan.



Span 1 Deck: left overhang, at bent 1, delamination (2 foot x 6 inch)



Span 1 Deck: underside of deck, bay 2, at end bent 1 and midspan, (2) delaminations (up to 3 foot x 1 foot)



Span 1 Deck: underside of deck, bay 2, at end bent 1 and midspan, (2) delaminations (up to 3 foot x 1 foot)



(PAR) along end bent 1 slope protection, homeless debris (full length) inhibiting inspection access



Span 2 Beam 3: (PAR) 10 inch long x up to 2 inch high x 5/16 inch section remaining in the web at beam end at bent 1, spot rust present



Span 1 Beam 4: (PAR) 8 inch long x full flange width x 0.55 inch remaining thickness in bottom flange with corrosion reactivating at bent 1



Span 1 Beam 4: at bent 1, painted over pitting up to 1/16 inch x 12 inch x 7 inch with corrosion reactivating



Span 1 Beam 4 - Far Bearing 4: arrested pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.



Span 2 Beam 4: (PAR) at bent 1, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 12 inch x 2.5 inch) with corrosion hole (6 inch x 1 inch); lower web (5/16 inch average remaining x 52 inch x 2 inch); bottom flange (0.55 inch average remaining x 10 inch) with corrosion reinitiated



Span 2 Beam 4: (PAR) at bent 1, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 12 inch x 2.5 inch) with corrosion hole (6 inch x 1 inch); lower web (5/16 inch average remaining x 52 inch x 2 inch); bottom flange (0.55 inch average remaining x 10 inch) with corrosion reinitiated



Span 2 Beam 4 - Near Bearing 4: active pack rust and section loss in masonry plate and sole plate. 75 percent section remaining



Bent 1 Cap 1: 35 inch long x 16 inch high x up to 1.5 inch deep area of delamination and spall in north face at beam 4 with exposed reinforcement. no measurable section loss.



Span 2 Beam 4: (PAR) 7 foot long x 4 inch high x 4 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beams 4 and 5 at bent 1. 75 percent section remaining in the exposed reinforcement.



Span 1 Beam 5: (PAR) 10 inch long x 3 inch high x 3/16 inch average remaining in the web with 3 inch long x 1.5 inch corrosion hole under the diaphragm at bent 1



Span 2 Beam 5: (PAR) active corrosion with section loss 10 inch long x 3 inch high x 1/4 inch average remaining in the web with 3 inch long x 1.25 inch high corrosion hole under the diaphragm at bent 1



Bent 1 Cap 1: north face, below beam 5, delamination/spall [4 foot x 1 foot x 1/2 inch]



Span 2 Beam 5: (PAR) 7 foot long x 10 inch high x 3 inch wide area of spall, delamination with exposed reinforcement in the concrete diaphragm between beams 5 and 6 at bent 1. 70 percent section remaining in the exposed reinforcement



Span 2 Beam 6: (PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 54 inch x 13 inch); bottom flange (0.56 inch average remaining x 2 foot) with corrosion reinitiated



Span 1 Beam 6: (PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 3 foot x 8 inch); bottom flange (0.42 inch average remaining x 20 inch) with corrosion reinitiated



Span 1 Beam 6 - Far Bearing 6: active pack rust and section loss in masonry plate and sole plate. 80 percent section remaining. west anchor bolt nut 60 percent remaining.



Span 2 Beam 7: (PAR) at bent 1 active corrosion with section loss, web at diaphragm [20 inch long x 13 inch high x 1/4 inch average remaining] with multiple corrosion holes up to [3 inch x 1 inch]



Span 2 Beam 7: (PAR) 7 foot long x 4 inch high x 4 inch wide area of spalling, delamination with the exposed reinforcement in the concrete diaphragm between beams 7 and 8 at bent 1. 70 percent section remaining in the exposed reinforcement.



Span 1 Beam 7: (PAR) at bent 1 active corrosion with section loss, web at diaphragm [10 inch x 2 inch x 3/16 inch average remaining] with 1/2 inch diameter corrosion hole



Span 1 Beam 8: (PAR) 18 inch long x up to 8 inch x 1/4 inch average remaining area of section loss in web at bent 1, spot rust present.



Bent 1 Cap 1: 5 foot long x 21 inch high area of delaminated concrete with cracks up to 1/16 inch between beams 7 and 8 in the north face of cap near top.



Span 2 Beam 8: (PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 24 inch x 12 inch) with corrosion hole (3 inch x 1 inch); bottom flange (0.56 inch average remaining x 12 inch) with corrosion reinitiated



Span 2 Beam 8: (PAR) at bent 1, painted over section loss: web (1/4 inch average remaining x 24 inch x 12 inch) with corrosion hole (3 inch x 1 inch); bottom flange (0.56 inch average remaining x 12 inch) with corrosion reinitiated



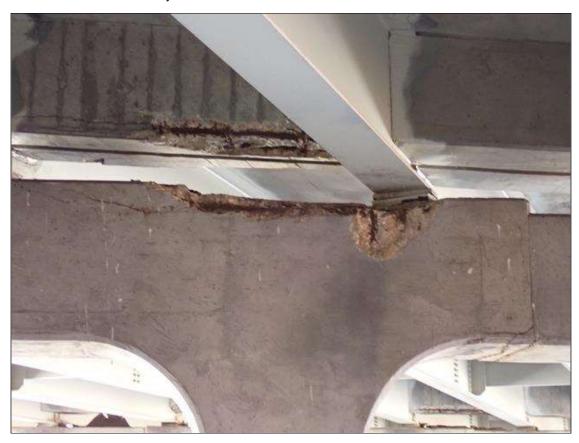
Bent 1 Cap 1: 1 foot long x full width of cap area of delaminated concrete with cracks up to 1/8 inch extends 1 foot into north face between columns 5 and 6.



Bent 1 Pile 4: North face at top of the column, delamination [31 inch x 10 inch wide] with cracks [up to 1/8 inch]



Bent 1 Pile 3: (PAR) 34 inch high x 10 inch wide x up to 2 inch deep spall with exposed rusted reinforcement.



Bent 1 Cap 1: (PAR) South and top face between beams 7 and 8, spall/delamination [4.5 foot x up to 3.5 foot x up to 4 inch deep] with 4 vertical and 1 horizontal exposed rusted reinforcing with up to 1/16 inch section loss. no loss of bearing area



Bent 1 Cap 1: 5 foot x full width delamination with cracks up to 1/16 inch in the underside of the cap between columns 4 and 5. 1/16 inch wide vertical crack in the north face of the cap between columns 4 and 5.



Bent 1 Cap 1: 15 foot long x 12 inch delamination with cracks up to 1/8 inch between beams 5 and 7 on south face of the cap.



Span 2 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random



Span 2 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) at random



Bent 2 Pile 7: north and west faces, map cracks (hairline x 1 foot x full width)



Bent 2 Pile 5: 3 foot from ground, west and south faces, (2) spalls/delaminations (up to 1 foot x 19 inch x 1.5 inch deep) with exposed rusted rebar



Bent 2 Pile 5: (PAR) Southwest corner below cap, delamination/spall [7 foot high x up to full width x up to 3 inch deep] with two exposed rusted reinforcing, 70 percent section remaining in the exposed reinforcement.



Bent 2 Pile 4: below cap, northeast and southeast corners, (2) delaminations (up to 3.5 foot x 10 inch) with cracks (1/4 inch)



Bent 2 Pile 4: below cap, northeast and southeast corners, (2) delaminations (up to 3.5 foot x 10 inch) with cracks (1/4 inch)



Bent 2 Pile 4: (PAR) north face, at ground, spall/delamination (full width x 7.5 foot high x 3 inch deep) extends into east and west faces (up to 7 inch) with exposed rusted and debonded rebars



Bent 2 Pile 4: (PAR) north face, at ground, spall/delamination (full width x 7.5 foot high x 3 inch deep) extends into east and west faces (up to 7 inch) with exposed rusted and debonded rebars



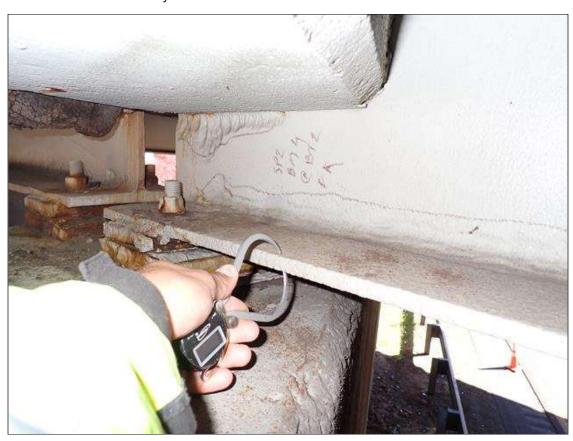
Bent 2 Pile 3: southwest corner, below cap, spall/delamination (36 inch x 10 inch x 1 inch deep)



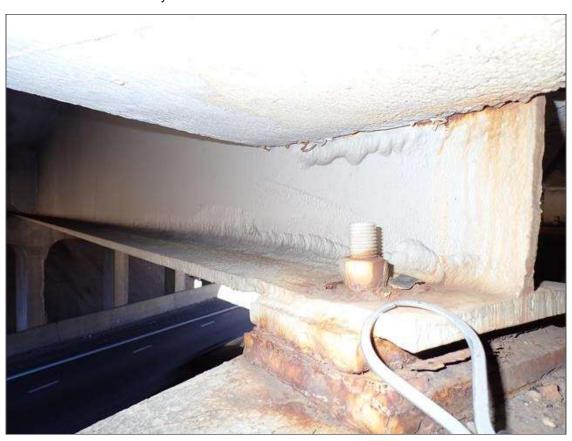
Bent 2 Pile 3: (PAR) Southeast corner 5 foot from the ground, delamination/spall [28 inch wide x 9.5 foot x up to 4 inch deep] with [1] primary exposed rusted reinforcing [75 percent remaining]



Span 3 Beam 1: at bent 2, web, rust scale (10 inch)



Span 2 Beam 4: (PAR) at bent 2, painted over section loss: bottom flange (0.60 inch average remaining x 2.5 foot), lower web (5/16 inch average remaining x 27 inch x 2 inch), web adjacent to diaphragm (1/4 inch average remaining x 11 inch x 3 inch) with corrosion reinitiated



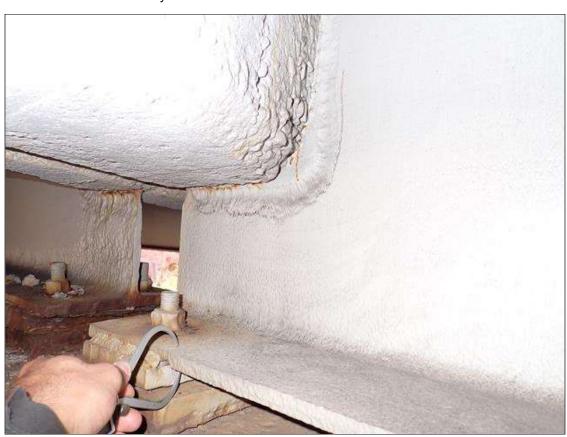
Span 3 Beam 4: (PAR) at bent 2, painted over section loss: bottom flange (0.56 inch average remaining x 9 inch), lower web (3/16 inch average remaining x 6 foot x 2 inch), web adjacent to diaphragm (3/16 inch average remaining x 12 inch x 2 inch) with corrosion reinitiated



Bent 2 Cap 1: (PAR) south face, below beam 4, spall/delamination (18 inch x 38 inch x 1.5 inch deep) with exposed and debonded rebar



Span 2 Beam 5: (PAR) up to 4.5 foot long x 4 inch high x 3 inch deep spalls in south and bottom with exposed rusted reinforcement with up to 1/16 inch section loss, in the diaphragm between beams 4 and 5.



Span 2 Beam 5: (PAR) at bent 2, painted over section loss: bottom flange (0.50 inch average remaining x 8 inch); web adjacent to diaphragm (3/16 inch average remaining x 11 inch x 8 inch) with corrosion reinitiated



Span 2 Beam 5 - Far Bearing 5: painted over section loss (up to 1/8 inch loss) on masonry plate and sole plate



Span 3 Beam 5: (PAR) at bent 2, painted over section loss: bottom flange (0.60 inch average remaining x 3 foot); web (1/4 inch average remaining x 3 foot x 12 inch) with hole (1.5 inch x 1 inch) with corrosion reinitiated



Span 3 Beam 5: (PAR) at bent 2, painted over section loss: bottom flange (0.60 inch average remaining x 3 foot); web (1/4 inch average remaining x 3 foot x 12 inch) with hole (1.5 inch x 1 inch) with corrosion reinitiated



Bent 2 Cap 1: 4 foot x up to 20 inch x 1 inch deep high area of delaminated concrete in south face between beams 4 and 5.



Span 2 Beam 6: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/16 inch average remaining x 10.5 inch x 2.5 inch) with corrosion hole (1.5 inch x 1/2 inch); lower web (3/8 inch average remaining x 5.5 inch x 1 inch) with corrosion reinitiated



Span 2 Beam 6: (PAR) 7 foot x 16 inch x up to 3 inch deep spall with exposed reinforcement in the underside and south face of the diaphragm between beams 6 and 7. 70 percent section remaining in exposed reinforcement.



Span 3 Beam 6: (PAR) at bent 2, painted over section loss: web (1/4 inch average remaining x 3 foot x 1 foot) with corrosion hole (5 inch x 2 inch); bottom flange (0.60 inch average remaining x 2.5 foot) with corrosion reinitiated



Bent 2 Cap 1: (PAR) south face, in bay 6, spall/delamination (8 foot x 4 foot x 1.5 inch deep) with exposed rusted rebar (approximately 75 percent remaining) and cracks (up to 1/16 inch)



Span 2 Beam 7: (PAR) at bent 2, painted over section loss: bottom flange (0.50 inch average remaining x 8 inch); lower web (3/8 inch average remaining x 5 inch x 1 inch); web adjacent to diaphragm (3/16 inch average remaining x 10 inch x 3 inch)



Span 2 Beam 7: (PAR) 2 foot x 4 inch x 3 inch deep spall with exposed rusted and debonded reinforcement on south face of end diaphragm, at bent 2



Span 3 Beam 7: (PAR) at bent 2, painted over section loss: web (1/4 inch average remaining x 4.5 foot x 16 inch)



Span 3 Near Bearing 7: (PAR) east weld between sole and bottom flange, broken



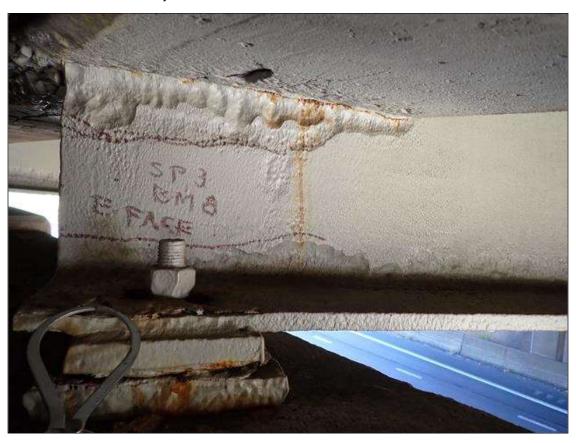
Bent 2 Cap 1: 4 foot long x 18 inch x 1 inch high spall/delamination concrete in south face near the top between beams 7 and 8.



Span 2 Beam 8: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 14 inch x 8 inch); lower web (7/16 inch average remaining x 2 foot x 3 inch)



Span 2 Beam 8 - Far Bearing 8: [PAR] West face anchor bolt not visible within nut



Span 3 Beam 8: (PAR) at bent 2, painted over section loss: web adjacent to diaphragm (3/16 inch average remaining x 16 inch x 2.5 inch); lower web (1/4 inch average remaining x 20 inch x 2 inch); bottom flange (0.50 inch average remaining x 9 inch) with corrosion reinitiated



Bent 2 Cap 1: [PAR] bottom face of cap between columns 4 and 5, spall/delamination [5 foot long x full width x up to 3 inch deep] with seven exposed rusted reinforcing with 80 percent remaining



Bent 2 Cap 1: between columns 3 and 4, 4 foot long x full width delamination in the bottom face extending into vertical faces of concrete



Bent 2 Cap 1: (PAR) (3) up to 1.5 foot x 1 foot wide x 1/2 inch deep spall with exposed rusted reinforcement, 80 percent remaining on underside of cap between columns 5 and 6



Bent 2 Cap 1: 10 foot x 1/16 inch horizontal crack in north face of cap under bays 5 and 6



Bent 2 Cap 1: under beam 5, spall [14 inch x 4 inch x 1 inch deep] with coarse aggregate exposed, undermining bearing 1/2 inch



Span 3 Near Bearing 5: (PAR) loss of bearing area (up to 1/2 inch x 3 inch)



Span 3 Beam 4: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 15 inch x 9 inch)



Span 4 Beam 4: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 5.5 foot x 10 inch) with corrosion holes (up to 1 inch x 1/2 inch); bottom flange (0.45 inch average remaining x 4 foot)



Span 3 Beam 5: (PAR) at bent 3, painted over section loss: bottom flange (0.45 inch average remaining x 1 foot); web (1/4 in average remaining x 2 foot x 9 inch) with corrosion reinitiated



Span 3 Beam 5: 7 foot x 4 inch delamination with cracks up to 1/8 inch in south face end diaphragm at bent 3



Span 4 Beam 5: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 6 foot x 1 foot) with corrosion holes (6 inch x 1.5 inch); bottom flange (0.56 inch average remaining x 15 inch) with corrosion reinitiated



Span 3 Beam 6: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 20 inch x 10 inch); bottom flange (0.56 inch average remaining x 1 foot) with corrosion reinitiated



Span 3 Beam 6 - Far Bearing 6: corrosion has been arrested when painted, 75 percent section remaining in masonry and sole plate. west anchor bolt nut has 20 percent section remaining



Span 4 Beam 6: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 32 inch x 12 inch) with corrosion reinitiated



Span 3 Beam 7: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (3/8 inch average remaining x 10 inch x 5 inch) with corrosion reinitiated



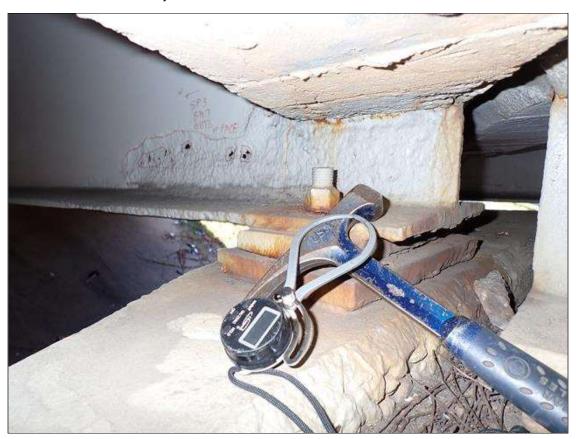
Span 3 Far Bearing 7: arrested pack rust and section loss in masonry plate and sole plate. 80 percent section remaining.



Span 4 Beam 7 - Near Bearing 7: arrested corrosion and section loss in masonry plate and sole plate. 80 percent section remaining. both anchor bolt nuts have up to 40 percent section remaining



Span 4 Beam 7: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 8 foot x 12 inch) with corrosion holes (up to 1/4 inch diameter); bottom flange (0.45 inch average remaining x 26 inch) with corrosion reinitiated



Span 4 Beam 7: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 8 foot x 12 inch) with corrosion holes (up to 1/4 inch diameter); bottom flange (0.45 inch average remaining x 26 inch) with corrosion reinitiated



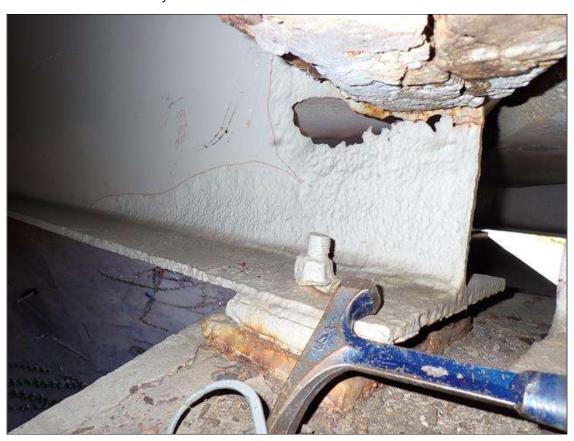
Span 3 Beam 8: (PAR) at bent 3, painted over section loss: web adjacent to diaphragm (1/4 inch average remaining x 1 foot x 8 inch); lower web (1/4 inch average remaining x 32 inch x 2 inch); bottom flange (0.50 inch average remaining x 18 inch) with corrosion reinitiated



Span 3 Beam 8 - Far Bearing 8: corrosion has been arrested when painted, up to 75 percent section remaining in masonry and sole plate. west anchor bolt nut has up to 80 percent section remaining.



Span 3 Beam 8: (PAR) 3 foot long x 6 inch wide x 3 inch high spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 70 percent section remaining in exposed reinforcement.



Span 4 Beam 8: (PAR) at bent 3, painted over section loss: web (1/4 inch average remaining x 34 inch x 12 inch) with corrosion hole (10 inch x 3 inch); bottom flange (0.50 inch average remaining x 34 inch) with corrosion reinitiated



Span 4 Beam 8 - Near Bearing 8: corrosion has been arrested when painted, 75 percent section remaining in masonry plate and sole plate. both anchor bolt nuts have up to 50 percent section remaining.



Span 3 Beam 11: 2023 new repair (beam heat straightened and coverplate rewelded); previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 area of previous impact damage, distortion of bottom flange vertical up to 2 inch lateral up to 1/2 inch with broken cover plate weld [10 inch long]. new area of impact damage 6 inch long x 2 inch high at 13 foot-5 inch out from interior. bent 3 . with the bottom cover plate being broken loose from bottom flange 10 inch long x 2 inch deep . there are also two older 1/2 inch indentions in the same area . Beam 11 is swept westward up to 1 1/2 inch. (par) there is a 2 inch diameter torch cut hole at both ends of of the 6 foot length .



Span 3 Beam 10: (2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indention 1 inch long x 1/2 inch deep at 18 foot-8 inch from interior. bent 3 . scattered scrapes along the web .



Span 3 Beam 9: (2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: 1 indention 1 inch long x 1/4 inch deep at 18 foot-7 inch from interior. bent 3



Span 3 Beam 8: over right westbound lane, impact scrapes with distortion



Span 3 Beam 7: over right westbound lane, impact scrapes



Span 3 Beam 7: multiple up to 3 foot long horizontal 1/8 inch wide cracks in end diaphragm between beams 7 and 8 at bent 2 starting at beam 8



Span 3 Deck: at bent 3, both overhangs, (2) delaminations (up to 1.5 foot x 6 inch)



Span 3 Beam 11: at bent 3, top flange, surface rust/rust scale (1 foot)



Span 3 Beam 6: spall/delamination 7 foot x 10 inch x 2 inch deep with exposed rusted rebar in north face of end diaphragm between beams 6 and 7 at bent 2



Span 3 Beam 5: (PAR) 7 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 5 and 6 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.



Span 3 Beam 4: (PAR) 6 foot long x up to 3 inch high x 10 inch wide area of spall in the diaphragm between beams 4 and 5 at bent 2 with exposed reinforcement. 70 percent section remaining in the exposed reinforcement.



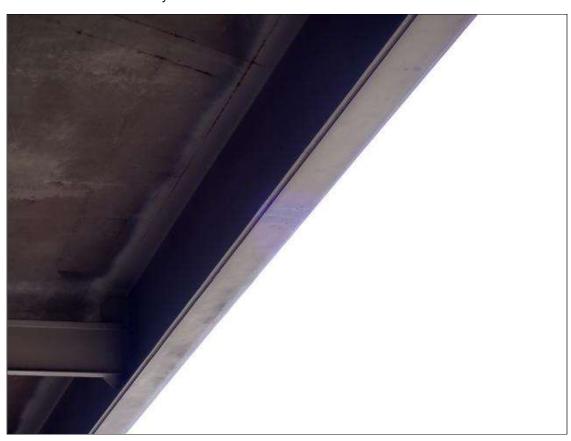
Span 3 Beam 4: (2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021: scattered scrapes



Span 3 Beam 3: 2023 new paint repair; previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes



Span 3 Beam 2: 2023 new paint repair, previously noted as: SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes



Span 3 Beam 1: (2023 no apparent change since previous inspection) SUPPLEMENTAL INSPECTION IMPACT DAMAGE 2021 :scattered scrapes



Span 4 Beam 4: 7 foot long x 8 inch wide x 4 inch along north face and 8 in along bottom face area of delamination and unsound concrete in end diaphragm at bent 3 between beams 4 and 5.



Span 4 Beam 5: 4 foot x 6 inch long x 8 inch wide x 5 inch along north and bottom faces area of delamination and unsound concrete in end diaphragm at bent 3 between beams 5 and 6.



Span 4 Beam 8: (PAR) 7 foot long x 1.5 foot wide x 3 inch deep spall with exposed reinforcement in end diaphragm between beams 7 and 8 at bent 3. 60 percent section remaining in exposed reinforcement.



Span 4 Deck: throughout underside of deck, transverse cracks (up to 1/16 inch x full bay width) and map cracks (1/32 inch) some with efflorescence at random



Span 4 Deck: 2 foot long x 6 inch wide x up to 1/2 inch deep area of delamination/spall in deck underside of bay 10, 15 foot from end bent 2.



Bent 3 Cap 1: 4 foot long x 8 inch high area of up to 1/16 inch wide cracks and delamination on north face under bay 5



Bent 3 Cap 1: North face under bay 7, delamination 6 foot long x up to 1 foot x 4 inch x 1 inch deep in and has up to 1/8 inch wide cracks



Bent 3 Cap 1: North face under beam 4, spall [1 foot x 6 inch x 1/2 inch deep] no undermining



Bent 3 Pile 3: 4 foot high x 12 inch wide area of delamination and unsound concrete in north face. similar condition in west face.



Bent 3 Pile 4: 3 foot high x 12 inch wide area of delamination and unsound concrete at northeast corner.



Bent 3 Pile 4: 29 inch wide x height varying from 18 inch to 45 inch area of delamination on west face. 3 foot high x 12 inch wide area of delamination in south face. 3 foot high x 12 inch wide area of delamination in north face.



Bent 3 Pile 5: 4 foot high x 16 inch wide area of delamination/spall and unsound concrete at northeast corner.



Bent 3 Cap 1: 5 foot x up to full height area of cracked delamination on south face of cap below beam 8



Bent 3 Cap 1: south face, in bays 4 and 5, multiple spalls/delaminations (up to 5 foot x 2 foot x 1.5 inch deep) with exposed rusted rebar



Bent 3 Cap 1: 12 inch high x 9 inch wide x 1.5 inch deep with exposed reinforcement under beam 7, south face. 90 percent section remaining in exposed reinforcement.



Bent 3 Cap 1: 10 inch x 5 inch x 1 inch deep spall with exposed reinforcement in south face between beams 6 and 7.

90 pecent section remaining in exposed reinforcement.



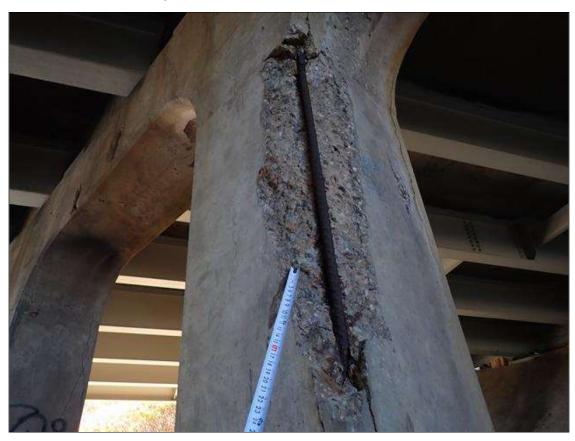
Bent 3 Cap 1: 12 inch x 4 inch x 1/2 inch deep spall with exposed reinforcement on east face of top radius at pile 5



Bent 3 Pile 3: east face 12 inch high x 6 inch wide x 1 inch deep spall with exposed reinforcement



Bent 3 Pile 3: (PAR) Southeast corner above barrier rail, spall/delamination [10 foot high x up to full width x up to 4 inch deep] with primary debonded exposed rusted reinforcing 75 percent remaining

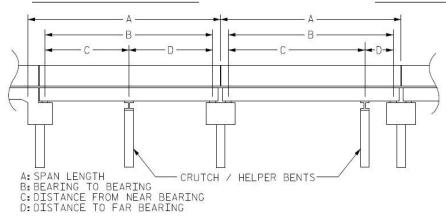


Bent 3 Pile 5: (PAR) 6.5 foot high x 20 inch wide x 3.5 inch deep spall and delaminated concrete with one debonded primary exposed reinforcement on south east corner of pile. 80 percent section remaining in exposed reinforcement.

Structure Data Worksheet

Span Profile





Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	49.000	47.000			
2	57.500	56.500			
3	57.500	56.500			
4	42.500	41.000			

Structure Number: 110173 Span: 2 Route Name: I 40 EB - LIDAR 05/30/13



roadway under span 2, looking east

Route Number: 110004	10	Reference Feature:	Н					
Minimum Vertical Cleara	Clearance 16.360 feet							
Total Horizontal Clearan	feet							
✓ Base Highway Netwo	rk	LRS Inv	entory Route, Sub Route Number 10040					
Milepost: 119.020	Number	of Lanes:	2	ADT : 22500	Percentage of Trucks:	16		
✓ National Highway System STRAHNET Highway Designator								
Functional Classification	Functional Classification 11 Local Principal Arterial - Interstate Direction of Traffic: 1 1 - way traffic							

Structure Number: 110173 Span: 3 Route Name: I 40 WB - LIDAR 05/30/13



roadway under span 3, looking west

Route Number: 11000	Reference Feature:	Н							
Minimum Vertical Clear	Clearance 14.950 feet								
Total Horizontal Cleara	nce 43.27	0 feet	3.280 feet Right 8.670	feet					
✓ Base Highway Netwo	ork	LRS Inv	entory F	Route, Sub Route Num	ber 10040				
Milepost: 119.020	Number	of Lanes:	2	ADT : 22500	Percentage of Trucks:	16			
✓ National Highway System STRAHNET Highway Designato									
Functional Classification	Functional Classification 11 Local Principal Arterial - Interstate Direction of Traffic: 1 1 - way traffic								

Bridge Inspection Field Sketch

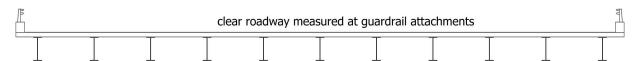
Roadway	17ft Wide	2 Paved Lanes	Looking North
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	5ft Wide	1ft Paved	4ft Unpaved
Left Guardrail			
Right Guardrail			
Night Guardian			

mesurements taken approximately 100 feet from end bent 1

Title APPROACH ROADWAY SKETCH	ł		Descriptio LOOKIN		тн			
Structure No: 110173	Drawn By:	HABonilla		Date:	10/25/2023	Filename:	S000906000258.wes	

Bridge Inspection Field Sketch

Deck Width/Out to Out	70ft	Between Rails			68ft	
Clear Roadway	67.44ft	Wearing	g Surface			
Median Width			Median Height			
Curb Height				Right		
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width			12in	Right	12in	
Top of Rail to Deck/Wearing Surface Bridge Rail Type			2.667ft	Right	2.667ft	
			Type 1	Right	Type 1	



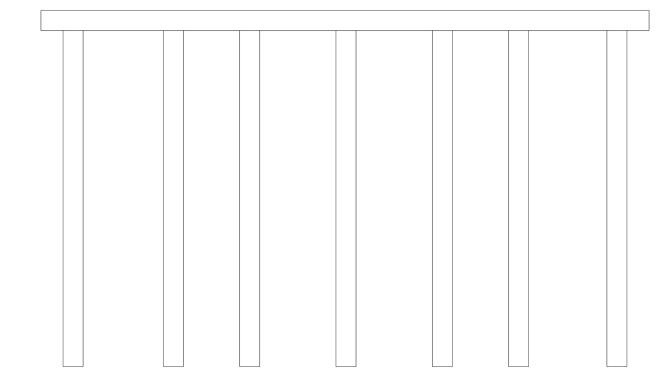
Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	6.5in	Left Overhang	2.5ft
Top of Rail to Bottom of Beam (Avg)	5.959ft	Right Overhang	2.5ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	11.5in	33in	2.5ft	Left Edge of Deck
2	Plate Girder	11.5in	33in	6.5ft	Beam 1
3	Plate Girder	11.5in	33in	6.5ft	Beam 2
4	Plate Girder	11.5in	33in	6.5ft	Beam 3
5	Plate Girder	11.5in	33in	6.5ft	Beam 4
6	Plate Girder	11.5in	33in	6.5ft	Beam 5
7	Plate Girder	11.5in	33in	6.5ft	Beam 6
8	Plate Girder	11.5in	33in	6.5ft	Beam 7
9	Plate Girder	11.5in	33in	6.5ft	Beam 8
10	Plate Girder	11.5in	33in	6.5ft	Beam 9
11	Plate Girder	11.5in	33in	6.5ft	Beam 10

BEAM DIMENSIONS: between flanges 31.5"; flanges 11.5" \times 3/4" thick; web 1/2" thick span 2 and 3 coverplates could not be field measured; refer to structure plans for dimensions

Title TYPICAL SECTION SKETCH			Descriptio LOOKIN		TH			
Structure No: 110173	Drawn By:	HABonilla		Date:	10/25/2023	Filename:	S000906000259.wes	

Bridge Inspection Field Sketch



Ca	Caps											
#	Name	Туре	Leng		ength	Wid	th	Height Left Beam to		End of Cap	Right Beam to End of Cap	
1	Cap 1	Reinfo	orced Concrete Pier Cap	75	5.75ft	30in	1	30in	2ft		2ft	
Pi	Piles											
#	Name		Type S		Spacing	g	From	ĺ		Height/Diam	Width	Length
1	Pile 1		Reinforced Concrete Colum	nn	1 4ft		Left End of Bent		30in	30in	16.25ft	
2	Pile 2		Reinforced Concrete Column		12.5ft		Pile 1		30in	30in	16.25ft	
3	Pile 3		Reinforced Concrete Column		9.5ft		Pile 2		30in	30in	16.25ft	
4	Pile 4		Reinforced Concrete Colum	nn	12ft		Pile 3		30in	30in	16.25ft	
5	Pile 5		Reinforced Concrete Colum	nn	12ft		Pile 4	ļ		30in	30in	16.25ft
6	Pile 6	Pile 6 Reinforced Concrete Column		nn	9.5ft		Pile 5	Pile 5		30in	30in	16.25ft
7	Pile 7		Reinforced Concrete Colum	nn	12.25ft		Pile 6	5		30in	30in	16.25ft

Title BENT SKETCH			Descriptio LOOKIN		TH		
Structure No: 110173	Drawn By:	HABonilla		Date:	10/25/2023	Filename:	S000906000260.wes



west profile looking east



roadway under span 2, looking east (I-40 eastbound)



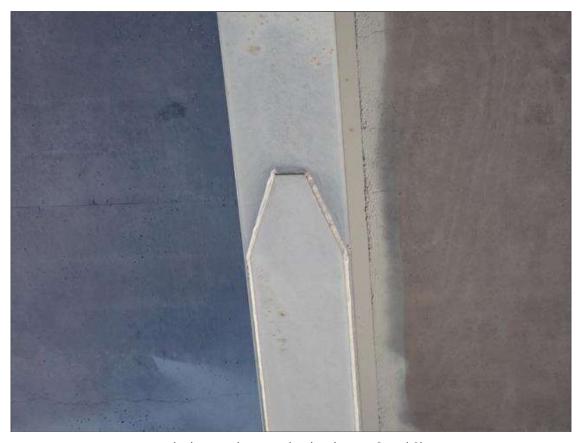
bent 2



superstructure underside



intermediate diaphragm



typical coverplate termination (spans 2 and 3)



end bent 1 and slope protection



end bearing assembly



southwest wingwall



southeast wingwall



southeast guardrail attachment



southeast guardrail transition



southeast guardrail



southeast guardrail termination



south approach looking north



left bridge rail



right bridge rail



asphalt wearing surface



end bent 1 asphalt



bent 1 joint



south approach looking south



roadway looking east



bent 2 joint



bent 3 joint



end bent 2 asphalt



north approach looking south



northwest guardrail



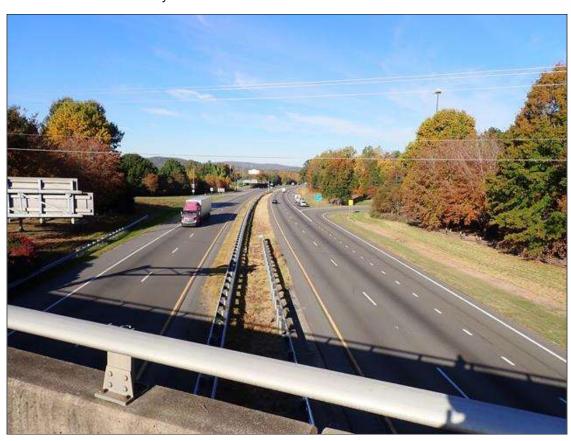
northwest guardrail termination



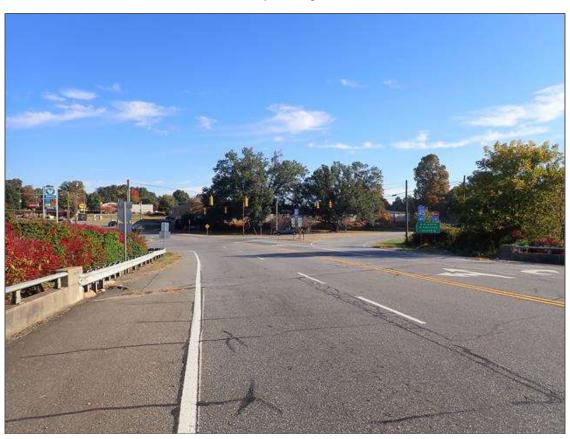
northwest guardrail attachment



northwest guardrail transition



roadway looking west



north approach looking north



northwest wingwall



end bent 2 and slope protection



northeast wingwall



east profile looking west



roadway under span 3, looking west (I-40 westbound)



bent 3



bent 1



end diaphragm



bridge number



interior bearing assembly



beams over bent



ladder used